

Value in motion

TOURING



TEMSA

User's Manual

TS 45

9031-259Y

EJXU8L1

Dear User,

Welcome to the TEMSA family. Modern technology is combined with our best efforts to present you a safe, economical and comfortable 'companion'.

With its uncompromising customer satisfaction principle and reliable after sales services team, TEMSA has prepared this User's Manual.

The content of this manual provides necessary information, suggestions and notes to make sure that you will be acquainted with all the features of your vehicle necessary for the safest and most efficient way of driving.

Please read carefully.

To Win and Improve Together in All Times...

TEMZA Family

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GENERAL INFORMATION

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- 1.1.1 Aim of this User's Manual
- 1.1.2 Intended Use of Vehicle
- 1.1.3 Operational Safety
- 1.1.4 Using Mobile Phone and Radio
- 1.1.5 Use of Genuine Parts & Accessories
- 1.1.6 Service and Maintenance
- 1.1.7 Getting the Most Out of Your Vehicle
- 1.2 Symbols
- 1.3 Warning Labels and Warning Signs
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1.1 Preface

1.1.1 Aim of this Users Manual

This User's Manual is prepared to use your vehicle in the safest and the most efficient way.

Safety instructions given in this User's Manuals are intended to protect persons and properties.

Therefore, before operating the vehicle or before carrying out any maintenance work, read this manual completely and carefully.

Any injury or damage arisen from non-compliance with the safety instructions given in this manual is the responsibility of the vehicle's owner.

Should the vehicle be sold, the User's Manual must be delivered to the new owner of the vehicle.

It is assumed that all the information and safety instructions given in this manual, can be understood clearly by the owner and the user of the vehicle who have sufficient occupational experience and knowledge.



WARNING

Technical information and properties of the vehicles stated within this User's Manual are valid on the date of issue. TEMSA, reserves the right to make any necessary changes to the features of its products without giving any advance notice.

1.1.2 Intended Use of Vehicle

The vehicle is designed for transportation of passengers and their luggage only.

Passenger capacity according to seat arrangement is indicated in the passenger capacity label and registration documents of the vehicle.

The vehicle cannot be used except for its design purpose.

The owner of the vehicle will be held liable for any other use beyond this design purpose.

Please contact authorized TEMSA Service if you have difficulty in understanding explanations in the user's manual.

In addition to the information provided within this manual, all prevailing national regulations must be observed.

This manual is intended to be used commonly for all variants of TS 45, therefore some properties of your vehicle may not comply with those indicated in this manual.

Also illustrations used in this manual are intended to be shown procedures, usage and other important subjects for the user. Therefore they may have some differences than the original views.

1.1.3 Operational Safety

Before driving, take all necessary safety and environmental aspects into consideration. Ensure that the vehicle is in technically perfect condition.

If you believe that your vehicle has a fault which could cause a crash, injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying TEMSA Global.

If NHTSA receives similar complaints, it may open an investigation, and if it discovers that a safety problem exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you and your dealer, or TEMSA Global.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

Observe all safety instructions and warnings displayed on the vehicle. The vehicle owner must ensure the presence and legibility of all warnings and information signs throughout the vehicle's service life.

Any alteration of the vehicle may interfere with safety features built into the vehicle and may lead to an accident resulting in serious injury or death.

Throughout this booklet, left is defined as the driver's side of the vehicle, and right as the passenger's side of the vehicle.

Fuel Quality

The tank must not be filled with more than 95 % of tank volume. The legal capacity is displayed on the fuel filler door outside. Use only ultra low sulfur diesel (ULSD).

California Proposition 65 Warning NOTICE!

Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California for causing cancer and birth defects or other reproductive harm. In addition, certain fluids contained in vehicles and certain wear components contain or emit chemicals known to the State of California for causing cancer and birth defects or other reproductive harm.

Production

Whether in production or repair, TEMSA Global always relies on environmentally friendly technology. A waste-management system has been introduced to reduce the amount of waste while simultaneously increasing the recycling rate. Waste water leaves the TEMSA Global factory only after being appropriately treated.

Any fault messages are indicated to the driver by the "Check Engine" warning light and the on-board computer.

Coverings

Do not affix any coverings (e.g. films or "stone guards") in the area of the headlights and air intakes. Damage due to excessive temperatures and abrasion could result.

Wear of the different components of the braking system, such as brake pads or brake discs, depends to a great extent on the individual driving style and the conditions of use and therefore cannot be expressed in actual miles on the road. The values communicated by TEMSA Global are based on normal operation adapted to traffic.



WARNING

- Danger of burning.
- The tailpipes of the exhaust system can become very hot.
- Do not touch this area.
- Look out for children.
- Parts of clothing can become damaged.

For more information refer to Section 7 (Engine).



WARNING

- There is risk of accident if you set or operate the on-board computer, radio, navigation system, telephone or other equipment when driving. This could distract you from the traffic and cause you losing control of the vehicle resulting in serious personal injury or death.
- Operate the components while driving only if the traffic situation allows you to do so safely.
- Carry out any complicated operating or setting procedures only while the vehicle is stationary.
- Take prevailing national regulations into consideration.



WARNING

Engine Exhaust

- Engine exhaust is dangerous if inhaled. Engine exhaust fumes have many components which you can smell. They also contain carbon monoxide (CO), which is a colourless and odorless gas. Carbon monoxide can cause unconsciousness and even death if inhaled.
- Never start or let the engine run in an enclosed, unventilated area.
- It is not recommended to sit in your vehicle for prolonged periods with the engine on and the vehicle not moving.

National Highway Transportation & Safety Administration (NHTSA)

If you feel your new TEMSA Global has a safety issue that could cause a crash or personal injury, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) describing the problem. You should also notify TEMSA Global immediately so that they can evaluate the situation or condition.

If NHTSA receives more information of similar nature, it may open an investigation regarding this matter. If NHTSA determines there is a common safety defect in a group of buses, it may issue an order for a recall. NHTSA will not, however, become involved in an individual issue between the owner/operator, distributor and/or TEMSA Global.

To contact NHTSA, call the Auto Safety Hotline toll free at 1.800.424.9393 (outside the Washington, DC area). In the Washington, DC area, call 366.0123. The NHTSA may also be contacted in writing to the following address:

NHTSA

US Department of Transportation
Washington, DC 20590

Before Placing the Bus in Service

It is the responsibility of the bus Owner / Operator to ensure compliance with all federal, state and local regulations for school bus operation and equipment. As part of a daily pre-trip inspection, the Driver should consider it his/her responsibility to verify that the vehicle is in satisfactory working order and that all emergency equipment is in place, fully stocked (First Aid Kit), up-to-date (Fire Extinguisher), and in proper working condition.

Inspection guidelines from individual state inspection manuals (such as Commercial Driver's License pre-trip inspection procedures) take precedence over those found in this manual. Guidelines found herein are in addition to those in your state's inspection requirements.

The Driver is responsible for inspecting that the loading area is clear before stopping to load passengers. The Driver must ensure that all unloaded passengers are clear before moving the bus.

Check the service brake adjustment.

Check the park brake adjustment on units equipped with hydraulic brake systems.

Check the torque on all body "tie-down" bolts.

Check the engine oil level.

Check the transmission fluid level.

Check the engine coolant level.

Check the air pressure in all tires.

Check the torque on the driveline universal joint straps.

1.1.4 Using Mobile Phones and Radio

Mobile phones and radio communication devices may distract the driver during driving. Therefore it is recommended not to use such devices.

Furthermore, usage of mobile phones or other devices transmitting electromagnetic waves must comply with prevailing national regulations.

Before adding sound equipment, check with your dealer and be sure to check Federal rules covering mobile radio and telephone units.

1.1.5 Use of Genuine Parts and Accessories

For a safer and longer service life of the vehicle, use only TEMSA genuine spare parts, accessories or parts which have been approved and tested by TEMSA.

All genuine parts have been approved by TEMSA by means of testing their reliability, endurance and safety factors. TEMSA does not take any responsibility for any injury or damage due to use of non-approved third party products.

Any alteration of the vehicle may interfere with safety features built into the vehicle and may lead to an accident resulting in serious injury or death.

1.1.6 Service and Maintenance

Carry out all maintenance and service work completely and within the specified intervals as described in this manual and in the warranty and service documentation.

The service and maintenance operations should be carried out by authorized services and be in compliance with TEMSA directives.

You should keep a record with all parts receipts and list the mileage and the date of any service work you perform and/or authorized service performed.

Incomplete or improper servicing may cause problems in the operation of the vehicle. If you are in doubt about any servicing, have it done by your authorized TEMSA Global dealer. Improper maintenance during the warranty period will jeopardize your TEMSA Global warranty coverage.

1.1.7 Getting the Most Out of Your Vehicle

1 Maintenance

The state of the art engine technology means only 1-2 maintenance checks are required each year. Please review your warranty and service manual for detail.

Optimum lubrication and tuning result in a 3 % to 5 % improvement in fuel economy.

2 Engine

Optimum fuel economy is reached at max. tractive force range of your engine.

3 Axle Alignment

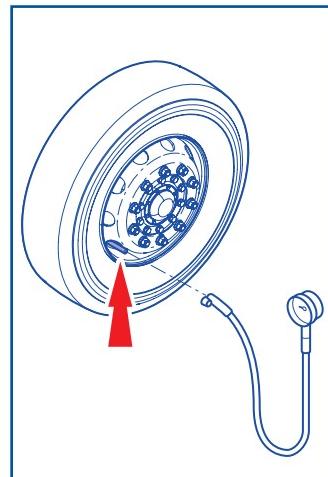
Incorrect axle alignment can impact consumption by up to 3%.

4 Tire Pressure

It is well known that a low tire pressure increases fuel consumption by up to 5%. If the tire pressure is 20% below the correct pressure, the rolling resistance will be about 10% higher and the fuel consumption will be about 5% higher.

Check the pressure before driving the vehicle when tires are cold. Remember as the ambient temperature changes raise/fall 10°C / 50°F; tire pressure changes increase/ decrease 0.2 bars / 2.9 psi.

5 Take a Break from Idle Time



Cutting idle time from 50% to 25% can improve fuel economy by up to 4%.



SAVE THE ENVIRONMENT

Excessive idling will increase the amount of particles released to the environment. Avoid excessive idling.

No need to increase revs!

7 Driving Steadily

Continuous speed adjustments cost fuel. Adaptive cruise control is an effective aid to keep pace with the other traffic at minimum fuel penalty.

Use the cruise and slow down

- Electronic cruise control saves fuel, makes driving easier.
- Think twice about the cruise speed you choose.
- Every mile per hour over 55 mph adds almost 0.66 gal / 2.5 liters more consumption per 62.1 miles.
- Remember, torque moves the load
- Torque moves the load; horsepower determines how fast it moves.
- Staying in the preferred torque range keeps the engine operating more efficiently and puts more profit in your pocket.

6 Gearbox (Manual Operation)

Practice progressive shifting. You do not have to, but overtaking the shifting is always possible:

Change gears earlier (even lower engine speeds) Shift up as soon as you have enough rpm to grab the next higher gear.
Hold the gear (driver's assessment)

1.1.7 Getting the Most Out of Your Vehicle

8 Driving on a Slope

Hold speed at the start of the slope:
Throttle up to full load gradually.

Don't change gear if your vehicle "holds its speed".

Do not be afraid to let the engine rpm pull back on a gradient. When you are pulling a long gradient, be patient.

Letting the engine rpm pull back on gradients will not hurt your engine.

9 Use the Energy

Let the mass work for you and make the most of momentum.

When no throttle is given, drive in the highest gear (low internal resistance). Look further ahead; avoid unnecessary braking; drive consistently.

Let momentum of your vehicle work for you to save fuel.

Coasting in gear allows all the fuel

to return to the tank.

Kick out the cruise control about a couple miles before you exit, stay in gear as long as possible, and watch how far you can coast for free.

Do not overload the vehicle with energy.

Release throttle in good time (weight of your vehicle represents a lot of energy when it moves)

When throttle is released your consumption is ZERO.

Do not build up too much speed and then correct it.

The Whole Makes the Difference

An efficient driveline alone does not guarantee the best return on fuel in everyday use. It is the total of different factors, like the overall configuration of the vehicle, the maintenance condition and the driving style that are decisive for the fuel efficiency.

In general less weight means more payload or less fuel. If aluminum wheels are fitted, the gain also includes better looks of the vehicle and lower maintenance costs.

Rules of thumb

Remember! Max. tractive force is defined between certain rpm range for your engine in which optimum fuel economy is reached. Tractive force at lower rpm limit of this range is the same as the highest limit of this range, resulting in high



SAVE THE ENVIRONMENT

Lowering the fuel consumption will reduce the exhaust emissions and will protect the environment.

driving comfort at low revs.
0.6 mph (1 km/h) faster = 1% higher fuel consumption:

- Driving at 85 instead of 80: +5%
- Driving at 90 instead of 85: +5%

Additional energy consumers have an impact as well:

- Air conditioning: 2%
- Extra Lights on: 1%-3%

Driving Performance

3 basic rules to drive with optimum fuel economy:

- Use as little energy as possible to get the vehicle up to speed.
- Appropriate revs.
- Appropriate gears.

Rate the energy required

Do I really need to accelerate that much in this situation?

Use the vehicle speed.

Weight of your vehicle represents a lot of energy when it moves, use that energy.

Summary

Anticipate:

- Release throttle in good time.
- Prevent unnecessary braking.
- Drive no faster than is necessary at a given time.

1.2 Symbols

Operating instructions in this manual include the following symbols, warning words and signs:



OPTION

This symbol indicates that mentioned property of the vehicle is optional. (Model specifications, models specified to the country, optional equipment).



INFORMATION

This symbol is used when important additional information is given.



VISUAL INSPECTION

This symbol is used to inform the user that the complementary indicator lamp would be lit after carrying out the mentioned instruction.



WARNING

This symbol is used in conditions which may cause damage or injury if necessary measures are not taken.



MECHANICAL MAINTENANCE

This symbol is used to indicate conditions where mentioned instruction should be carried out by a mechanic.



SAFETY GLOVES

This symbol is used to indicate conditions where it is necessary to wear safety gloves against injuries due to maintenance work.



AURAL INSPECTION

This symbol is used to inform the user that the complementary sound can be heard after carrying out the mentioned instruction.



ROTATING PARTS

This symbol is used to indicate conditions where the user may be hit and injured by rotating parts.



CONSULT AUTHORIZED SERVICE

This symbol is used in conditions where authorized TEMSA Service should be consulted for described maintenance, repair and inspection work.



HOT SURFACES

This symbol is used to indicate the risk of burns in case of contact with hot surfaces.



DO IT YOURSELF

This symbol indicates that mentioned instruction can be carried out by the user.



SAVE THE ENVIRONMENT

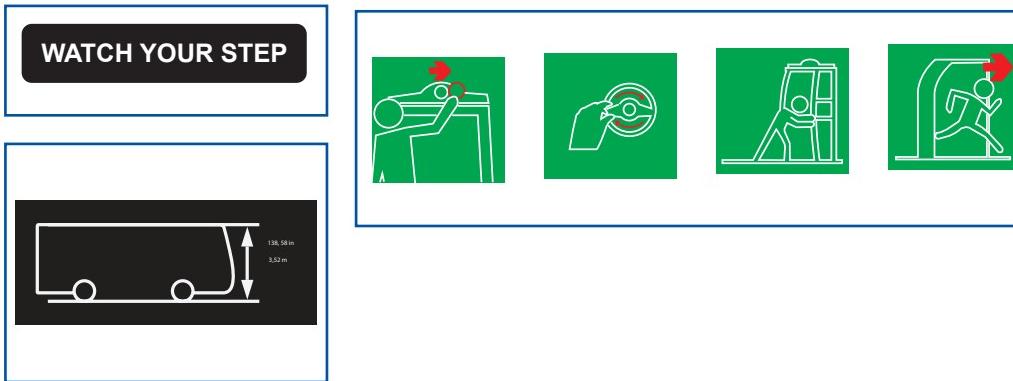
This symbol is used to indicate the environment should be considered when conducting this task.



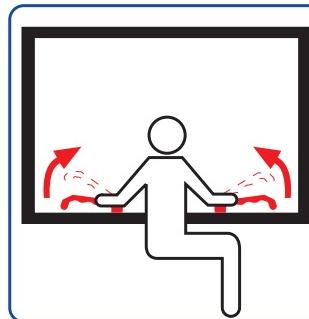
DOCUMENT REFERENCE

See also other manuals delivered for information.

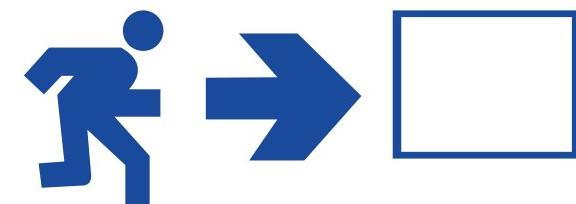
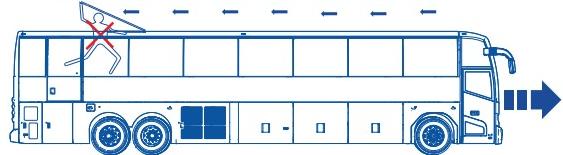
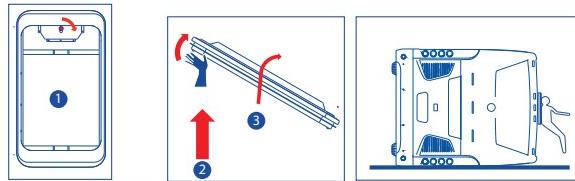
1.3 Warning Labels and Warning Signs



1.3 Warning Labels and Warning Signs



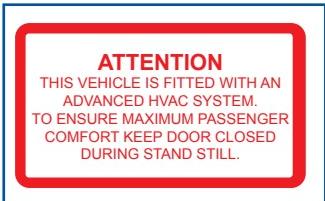
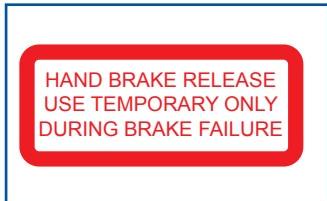
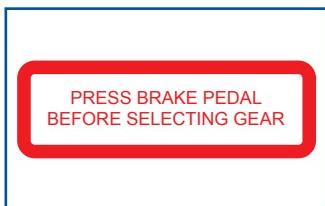
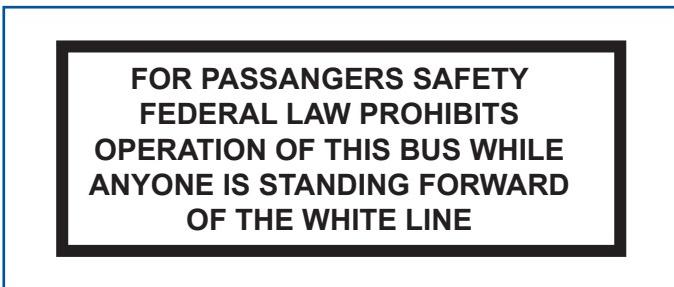
EMERGENCY EXIT
TURN BOTH TWO RED HANDLES
TO UPRIGHT POSITION
PUSH TO OPEN THIS WINDOW



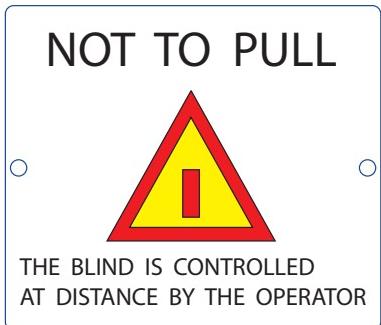
IN AN EMERGENCY
1-PUSH UP
2-PULL THE WHITE KNOB
3-OPEN THE LID

**EMERGENCY
EXIT**

1.3 Warning Labels and Warning Signs



1.3 Warning Labels and Warning Signs

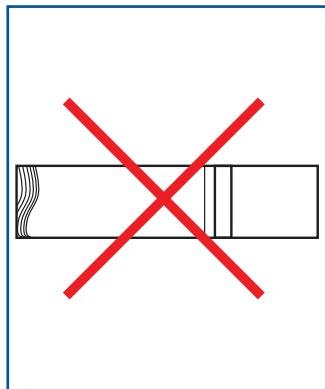
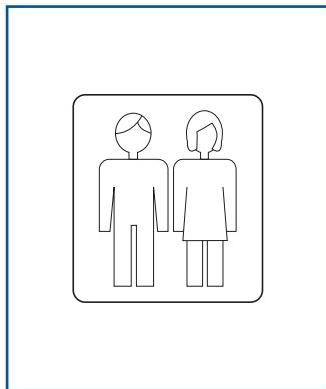


USE ULTRA LOW SULFUR DIESEL FUEL ONLY

1.3 Warning Labels and Warning Signs



DO NOT USE
THIS AREA FOR
STORAGE



PULL THE HANDLE
TO RELEASE
THE BUMPER

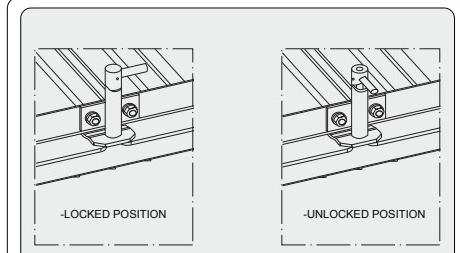
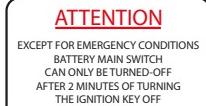
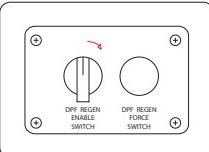
THE TANK CANNOT BE FILLED
WITH A QUANTITY OF FUEL
THAT EXCEEDS 95%
OF THE TANK VOLUME.
THE LEGAL CAPAC

1.3 Warning Labels and Warning Signs

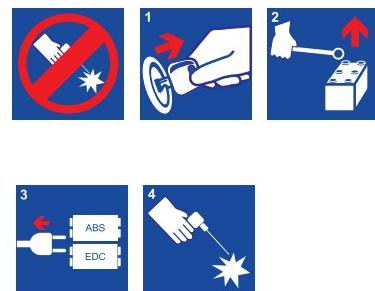


Lavatory waste must be disposed of into appropriate and approved Disposal or Dump

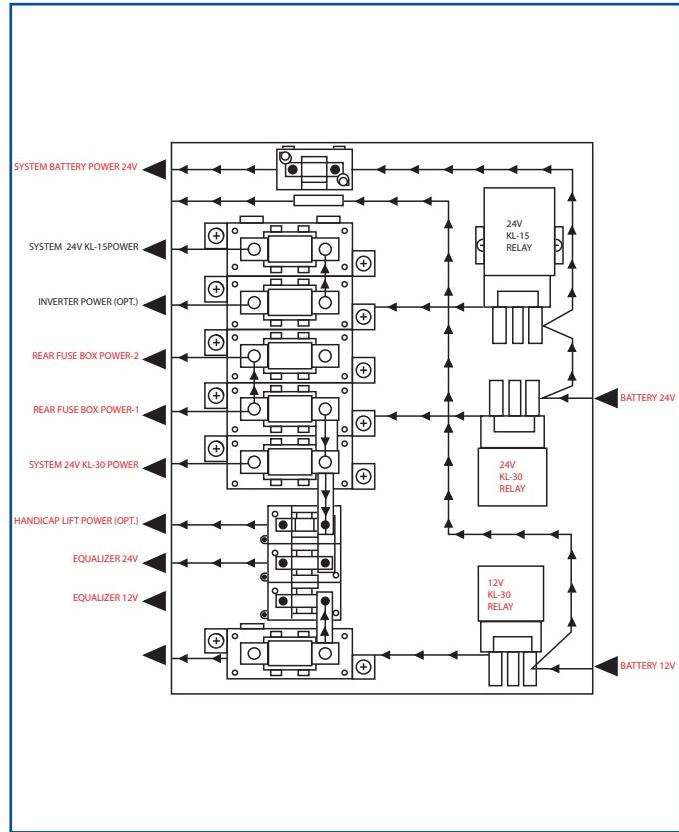
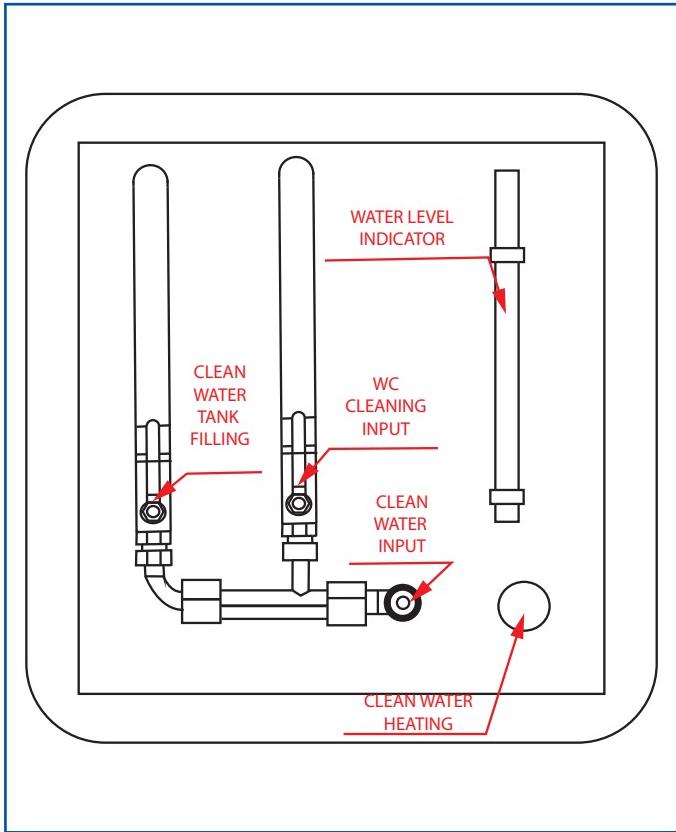
-  Stations only.
 -
- Failure to do so may result in serious criminal and/or civil fines, penalties and/or incarceration



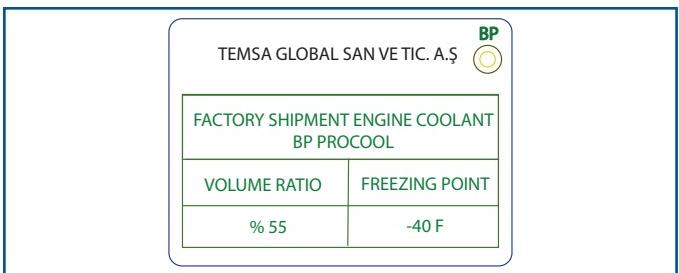
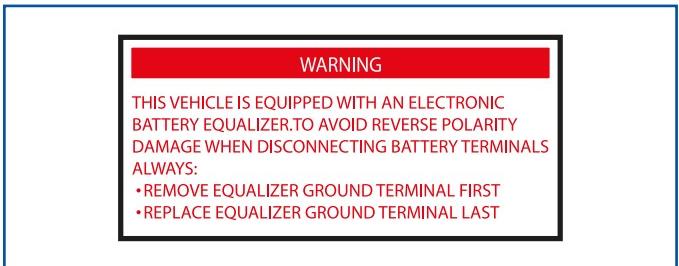
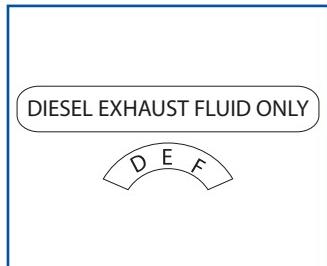
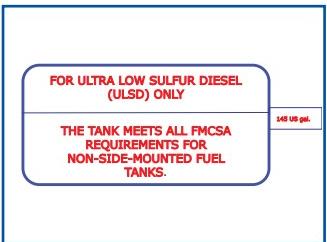
WARNING: DO NOT MOVE THE VEHICLE, UNLESS THE BATTERY CARRIER IS IN LOCKED POSITION



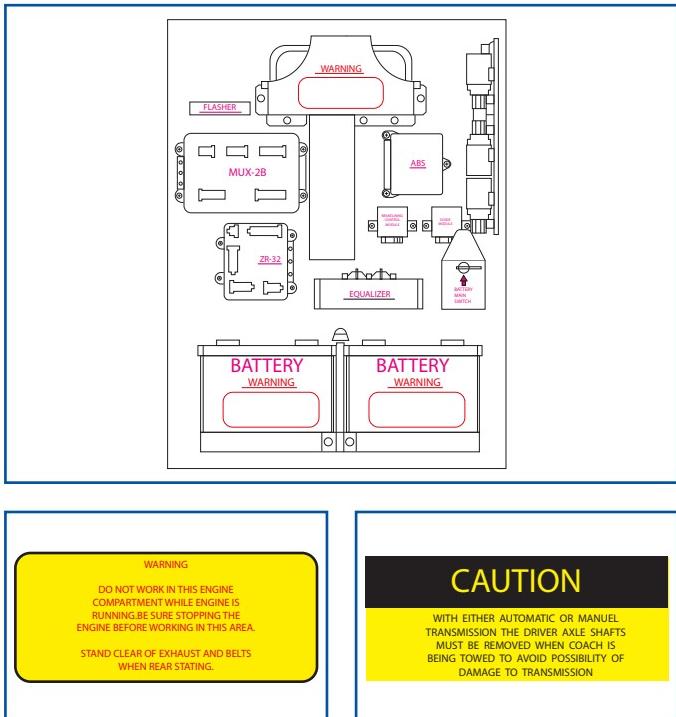
1.3 Warning Labels and Warning Signs



1.3 Warning Labels and Warning Signs



1.3 Warning Labels and Warning Signs



1.4 Usage of Heater

The heater must not be operated:



**RISK OF FIRE,
EXPLOSION &
ASPHYXIATION**

- At filling stations and other refueling points.
- If the heater or its exhaust outlet is in locations where inflammable vapors or dust may form (e.g. close to fuel, coal, wood dust or cereal storage facilities).
- If the heater or its exhaust outlet is located close to inflammable materials for example dry grass and leaves, cartons, paper etc.
- In enclosed areas (e.g. garages, hall without a suck off facility), not even if the digital timer or Tele Start is used.
- If the exhaust outlet of the heater is partial or fully obstructed (e.g. by soil or snow, as it may occur while move the vehicle backwards).



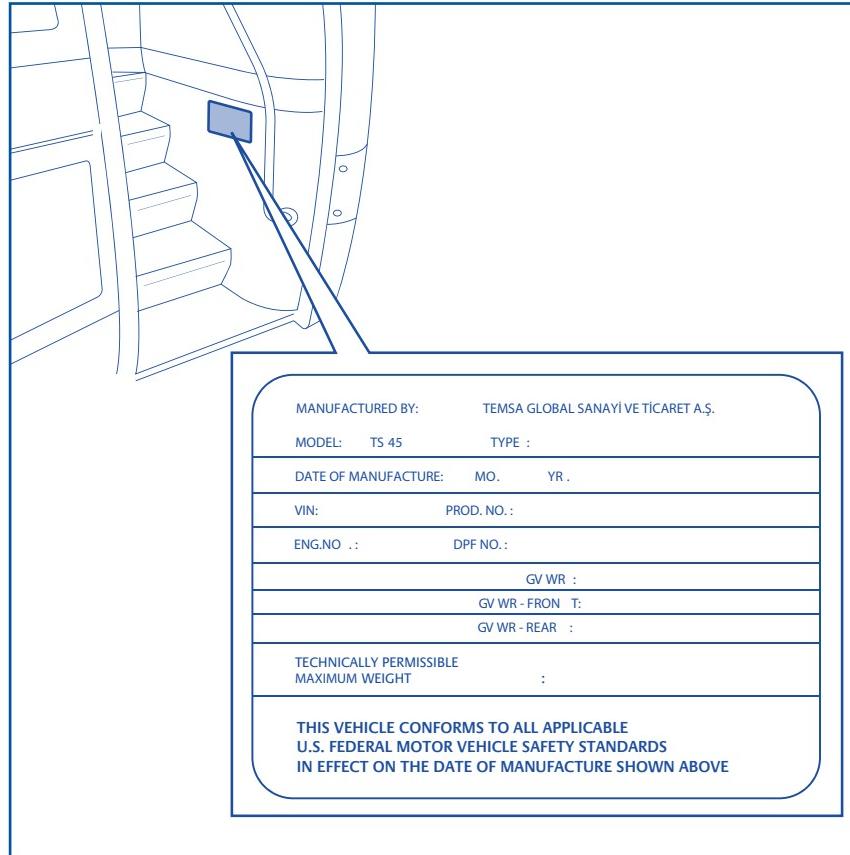
02

VEHICLE INFORMATION

- 2.1 Vehicle Certification Plate
- 2.2 Vehicle Specifications
- 2.3 Instrument & Control Panels
 - 2.3.1 Left Control Panel
 - 2.3.2 Instrument Panel
 - 2.3.3 Steering Wheel Control Group
 - 2.3.4 Lateral Control Panel
 - 2.3.5 Right Control Panel
- 2.4 Keys

2.1 Vehicle Certification Plate (Location)

Vehicle certification plate is located on the area shown in the illustration.



2.2 Vehicle Specifications

Weight and Capacity	
Gross Vehicle Weight	23360 kg / 51500 lbs
Fuel Tank	757 lt / 200 gal
Luggage compartment	13 m ³ / 460 ft ³

Tires and Rims	
Model	GOODYEAR
Tires	315/80 R22.5
Rims	9x22,5 inch
Performance	
Turning Circle	482,4 inch / 12253 mm

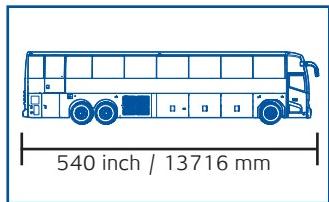
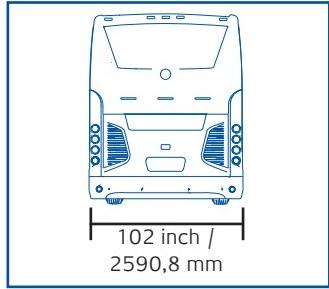
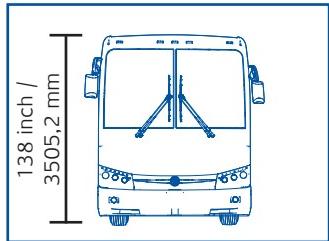
Engine (CUMMINS)	
Model	ISX EPA 13 345 HP
Type	Diesel
Number of Cylinders	6 in line
Maximum Power (Hp)	425
Maximum Torque (lb-ft/rpm)	1650/1100

Suspension	
Front	Stabilizer
	2 shock absorbers
Rear	Stabilizer
	4 shock absorbers

Transmission (ALLISON)	
Model	B500
Type	Automatic

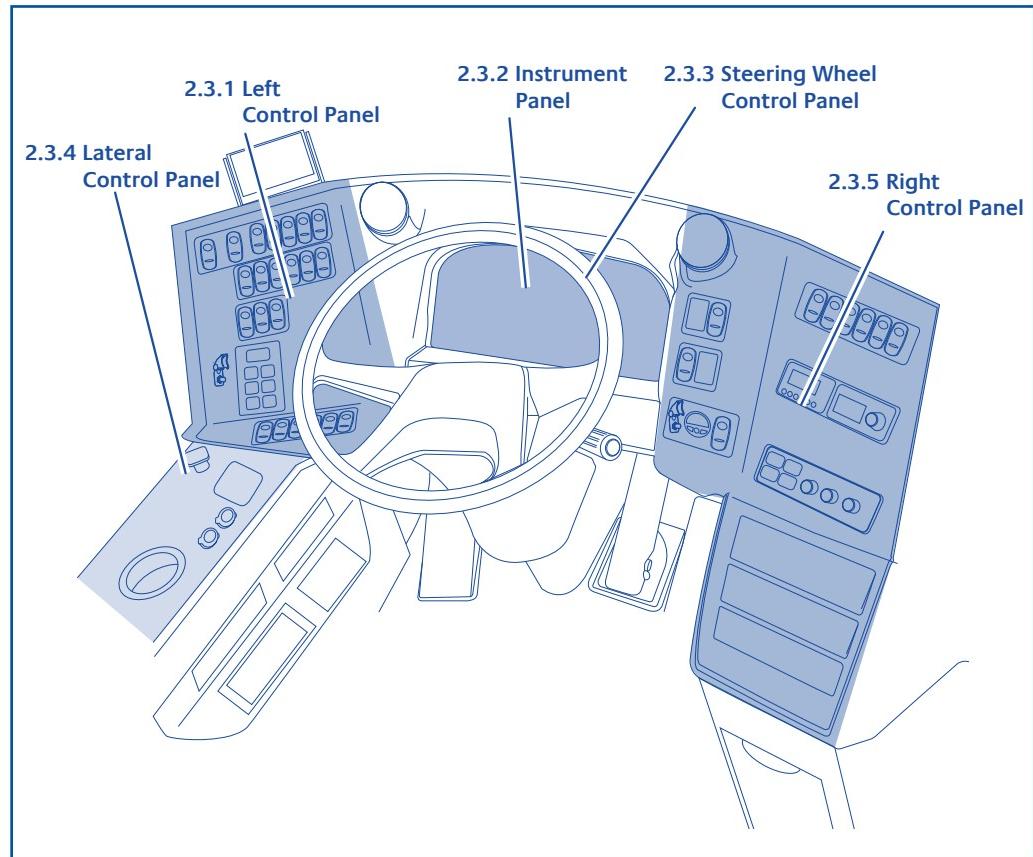
2.2 Vehicle Specifications

Dimensions	
Length	540 inch / 13716 mm
Width	102 inch / 2590,8 mm
Height	138 inch / 3505,2 mm
Interior Saloon Height	75 inch / 1905 mm
Wheelbase	310,8 inch / 7894,3 mm
Front Extension	78,5 inch / 1925,3 mm
Rear Extension	75,8 inch / 1993,9 mm

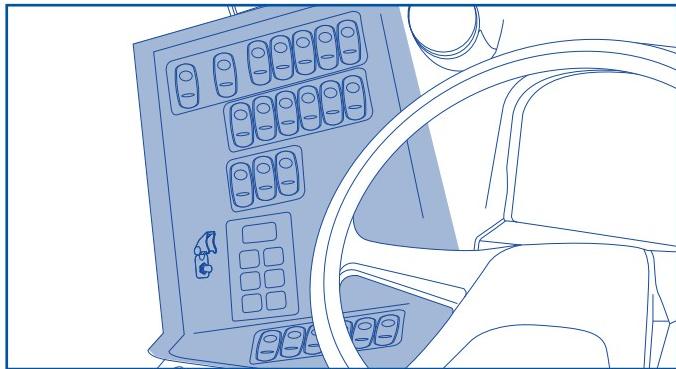


2.3 Instrument and Control Panels

- 2.3.1 Left Control Panel
- 2.3.2 Instrument Panel
- 2.3.3 Steering Wheel Control Group
- 2.3.4 Lateral Control Panel
- 2.3.5 Right Control Panel

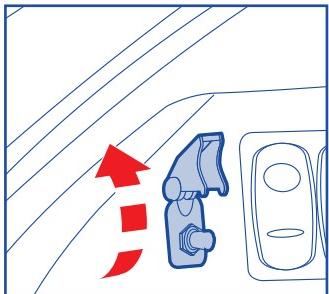


2.3.1 Left Control Panel



Emergency Stop Switch

Lift up the red protection cap and activate the switch.



WARNING

Never use “emergency stop switch” while driving. Use only when the vehicle is stationary and parking brake is activated.



INFORMATION

Closing the red cover cap pushes the switch forward and holds it in position.

Switching off the Engine by Emergency Stop Switch

When the switch is activated, the engine stops, gear is engaged into neutral automatically, hazard warning flashers start flashing and aisle illumination lamps, step lamps light on. None of the brake units apart from the foot brake, can be used till the switch is released.

Reset the switch by switching it back to its original position.



Start Switch

Runs the engine.



ACC Switch

Activates and deactivates the battery main switch. Push the upper side to switch for give energy from battery to electrical system. Push the lower side to switch for deactivate the battery and stop the engine.



ASR Disable Switch

Deactivates ASR (Acceleration Slip Regulation) System.

2.3.1 Left Control Panel



Blind Left Switch

Press upper side of the switch to move the sun visor upwards. Press lower side of the switch to move it downwards.



Blind Right Switch

Press upper side of the switch to move the sun visor upwards. Press lower side of the switch to move it downwards.



Kneeling Lifting Control Switch

Press lower side of the switch to perform kneeling function.



Engine Brake On/Off Switch

Press upper side of the switch to activate "Engine Brake Level" switch.



Central Locking Switch

Press lower side of the switch to lock all luggage hatches. To unlock, press upper side of the switch.



WARNING

Using passenger side sun visor limits the driver's view on the right rear view mirror. It may cause accidents.



INFORMATION

- Front body height decreases as long as the lower side of the switch is pressed.
- Press upper side of the switch to increase front body height.



INFORMATION

To activate engine brake level switch, first press upper side of the engine brake switch.



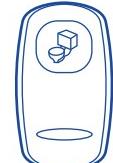
Steering Control Switch

Press upper side of the switch to release steering wheel lock mechanism.



WARNING

Central locking system cannot open/close luggage hatches. It is used for only locking/unlocking.



WC Active Switch

Press upper side of the switch to activate toilet system. When it is activated, toilet lamps light up, toilet fan starts running and all switches inside the toilet are ready for use.



Mirror Heating Switch

Press upper side of the switch to activate rear view mirror heater. When it is activated, the heater inside the mirror operates for only 10 minutes. Pressing again this switch within 10 minutes, deactivates the mirror heating system.



WARNING

- Steering wheel adjustment must only be performed when the vehicle is stationary and the parking brake is activated.
- Never drive before locking the mechanism again.

Only luggage hatches are locked/unlocked by the central locking system. Other hatches cannot be locked/unlocked by central locking system.

2.3.1 Left Control Panel



Engine Brake Level Switch

Switch has three levels. Press button to adjust engine brake level.

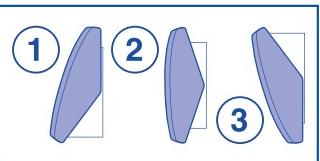


Cruise Control Switch

Activates cruise control function. So the "cruise control level" switch can be used.

INFORMATION

1st Position: Provides maximum engine brake power.
2nd Position: Provides less than 1st position engine brake power.
3rd Position: Provides minimum engine brake power.



Cruise Control

Enables constant speed (depending on the engine and braking power) without pressing accelerator pedal.



WARNING

- When cruise control function is deactivated, vehicle slows down unless accelerator pedal is pressed.
- Never use cruise control on wintry road conditions, slippery roads or in heavy traffic.
- When the ignition is switched off cruise values are deleted.

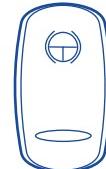
Cruise Control Activating

Press upper or lower side of cruise control level switch to activate cruise control.



INFORMATION

- Press upper side of "cruise control switch" to activate "cruise control level switch".
- Cruise control can be activated within speed range of 20 mph (32 km/h) and 75 mph (120 km/h).
- Move your foot from the accelerator pedal before pressing cruise control switch.



Intarder Foot Control Disable Switch

Enables the control of auxiliary brake unit (retarder) via foot pedal.

Accelerating or Deceleration

Press upper side of cruise control level switch to accelerate; press lower side of the switch to decelerate.

Deactivating

Press lower side of cruise control switch to deactivate.

INFORMATION

Cruise control is deactivated when service brake is applied or engine brake is activated.



Cruise Control Adjust Switch

Increases or decreases stabilized speed value.



Lift Active Switch (Optional)

Press upper side of the switch to activate lift mechanism. See page 80 for more information about lift mechanism.

2.3.1 Left Control Panel



Low Beam Clearance Switch

Switch has three levels. Press button to turn on parking lamps and low beam headlamps.



Air Horn (Optional)

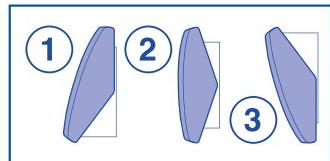
Press button to activate air horn.

i INFORMATION

1st Position: Parking lamps and low beam headlamps are on.

2nd Position: Parking lamps are on.

3rd Position: Parking lamps and low beam headlamps are off.



Press upper side of the switch to increase illumination of instrument panel.

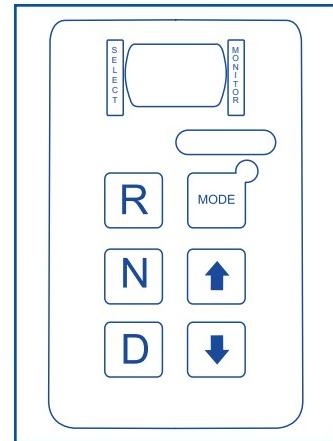
i INFORMATION

To illuminate instrument panel, parking light switch must be activated.



Push button to turn front fog lamps on. Press once again to turn them off.

Automatic Transmission Control Panel



Your vehicle is equipped with transmission of six forward gears and a reverse gear. For more information, see also page 138.

O OPTION

Automatic transmission model varies according to customer requirements.



Economic and powerful drive mode selection switch.



Upshift switch



Downshift switch



Forward gear switch

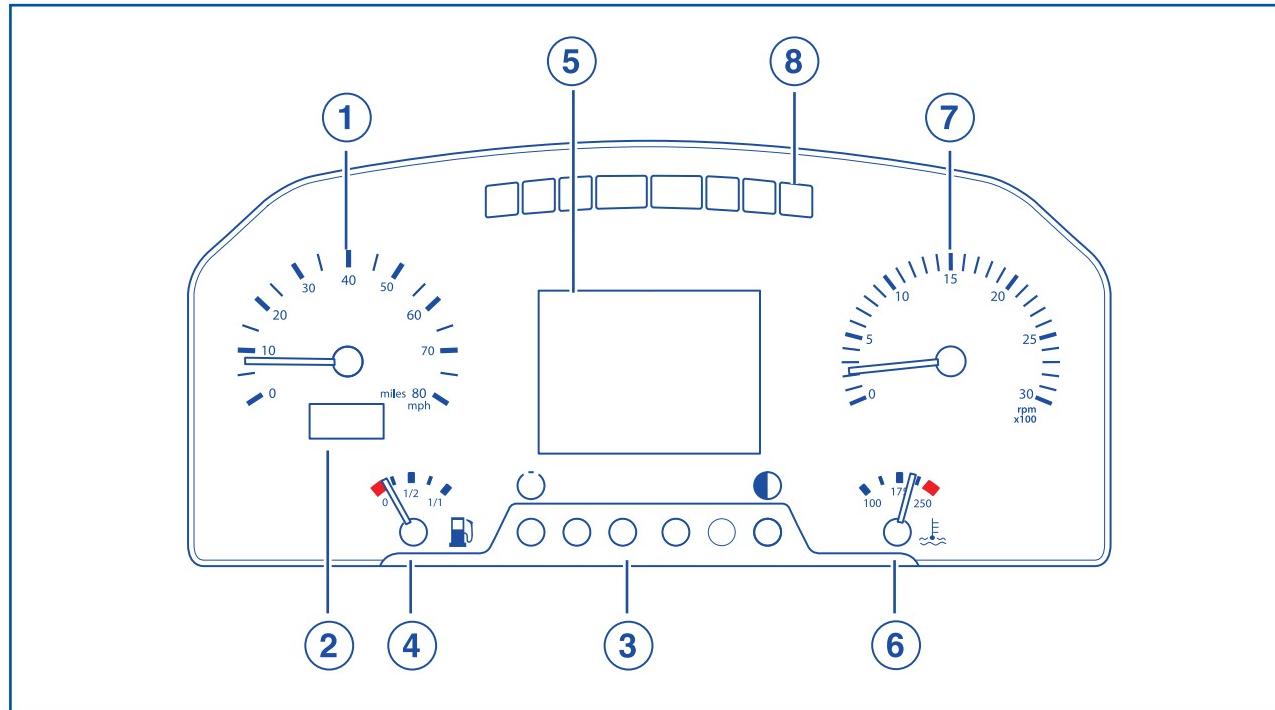


Neutral gear switch



Reverse gear switch

2.3.2 Instrument Panel



1 Speedometer

2 Odometer

3 Menu Selection Buttons

4 Fuel Indicator

5 Warning Panel

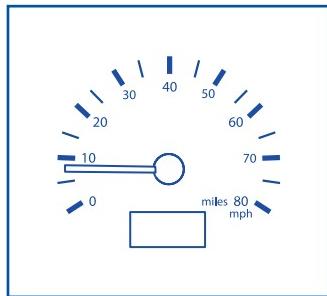
6 Temperature Indicator

7 Revolution Counter

8 Main Warning Panel

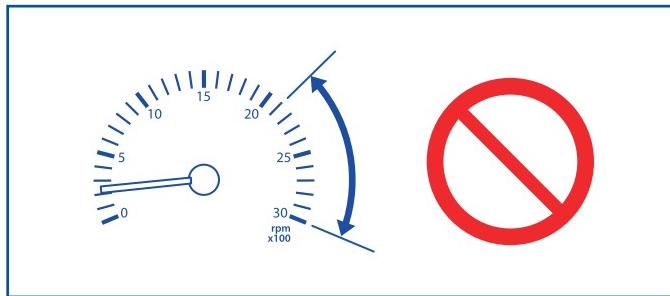
2.3.2 Instrument Panel

Speedometer

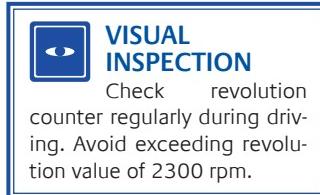


Displays current speed of the vehicle.

Revolution Counter



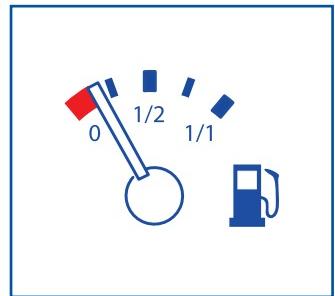
Indicates engine speed in thousands of revolutions per minute (rpm). Revolution counter guides you to drive optimally.



AURAL INSPECTION

Warning lamp on the tachometer lights up when 2300 rpm value is exceeded.

Fuel Indicator



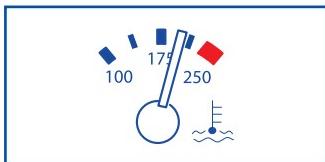
Indicates current fuel level.

0 : Empty level
1 / 1: Full level



2.3.2 Instrument Panel

Temperature Indicator



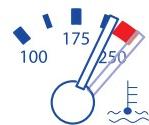
Indicates engine coolant temperature. Exceeding 100°C/212°F means engine overheating and warning lamp lights up. In such a case stop driving, park your vehicle **without** stopping the engine. On the contrary, stopping the engine when it overheats may cause a sudden rise in coolant temperature and the engine to lock up.

What to do?

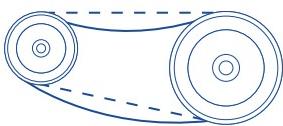


A/C

Shift into "NEUTRAL" without topping the engine, turn off the air conditioner, activate the parking brake and do not press the accelerator pedal until the engine coolant temperature drops.



Wait until the engine coolant temperature drops below 100°C/212°F.



Check the condition of V-belt is not loose or damaged. Consult authorized TEMSA Service if any damage is observed.



Check that radiator fan is operating. Consult authorized TEMSA Service, before continuing to drive, in case of malfunction.



HOT SURFACES

Wear protective gloves during inspection of engine compartment. Hot parts may cause severe injuries.

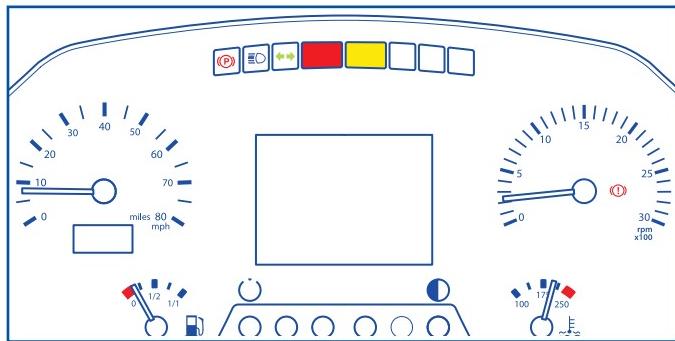


WARNING

Never open the radiator filler cap when engine overheats.

2.3.2 Instrument Panel

Main Warning Panel



 Flashes as long as left or right direction indicator is activated.

 Indicates that parking brake is activated.

 **INFORMATION**
Very fast flashing of left or right direction signal indicates a malfunction.

 High beam headlamps are on.

 Tachometer warning lamp.

 **Warning lamp I**
Lights up in addition to any warning lamp. Stop the vehicle immediately and consult authorized TEMSA Service.

 **Warning lamp II**
Lights up in addition to any warning lamp. When the lamp is on, it is advised not to continue to driving. Take the necessary actions immediately for the corresponding warning lamp.

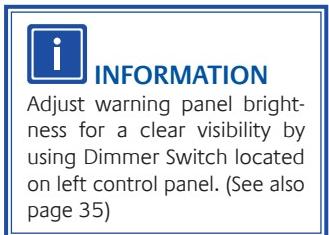
2.3.2 Instrument Panel

Warning Panel

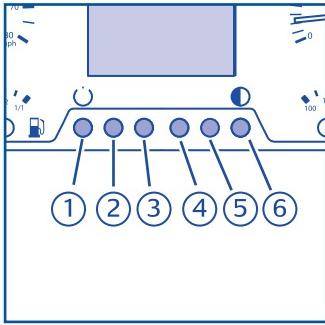


Warning panel informs driver to vehicle's operating status, malfunctions and information about the software.

Turn ignition key on position "2" to operate warning panel.

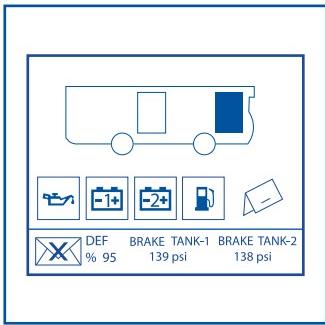


Display



Use menu selection buttons to shift between pages.

Driving Menu



Vehicle's operating status, malfunction warnings, AdBlue level, Brake Tank-1 Pressure, Brake Tank-2 Pressure displayed in this menu.



Coolant temperature warning



Gearbox oil temperature warning



Oil pressure low



Low/High pressure in front axle tank

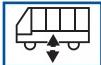
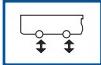


Low/High pressure in rear axle tank



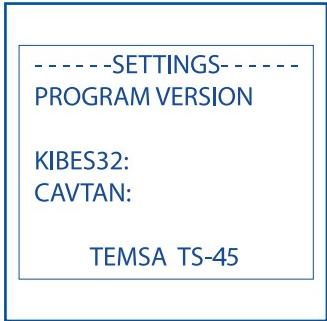
Low cooling water level

2.3.2 Instrument Panel

 Kneeling-lifting (Failure level control)	 Front left / fr. Right / Rear left / Rr. Right brake lining insufficient / Door air pressure low	 Preheater Active (Optional)	 Mirror heating
 Kneeling-lifting active	 First alternator failure	 Handicap passenger icon (optional)	 Diesel Particulate Filter Warning
 Fire in engine room / front relay panel / lug- gage room / rear relay panel / fuel tank / exhaust muffler	 Second alternator fail- ure	 Engine failure	 High Exhaust System Temperature
 Door Air Pressure Low	 Low fuel level	 Gearbox failure	 DEF low
 Retarder active (Option)	 ASR deactive	 ABS active	
 Engine Heater Active	 Front fog lamps are on (Optional)	 Central lock open	

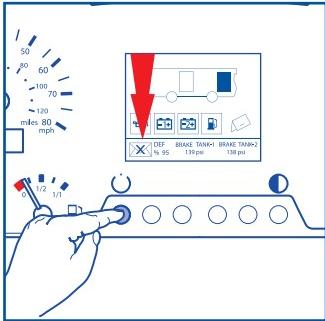
2.3.2 Instrument Panel

Information Menu



Hold button "5" to display information about the vehicle.

Fault Message Menu



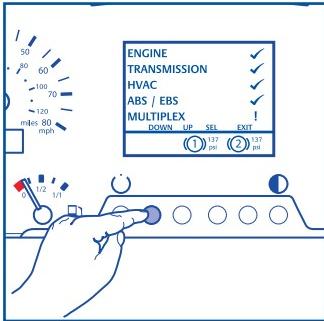
In case of malfunction, envelope icon displayed with a number that signifier how many fault message exist. Hold button "1" a few seconds to display fault message menu.

If an envelope with "x" mark displayed, this means no malfunctions.

In accordance to malfunction Warning Lamp I or Warning Lamp II located on main warning panel also light up in case of a malfunction.

And an audible warning is given to driver with some malfunctions.

Diagnose Menu



Hold button "2" a few seconds to reach diagnose screen.

 **CONSULT AUTHORIZED SERVICE**

If warning panel is non operational, do not drive and consult authorized TEMSA Service.

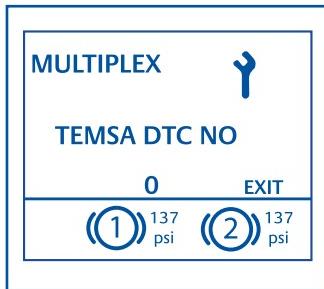
Use warning panel buttons to shift between the diagnose screen content. Button functions are stated below:

- Button 2: Down
- Button 3: Up
- Button 4: Select
- Button 5: Exit

2.3.2 Instrument Panel

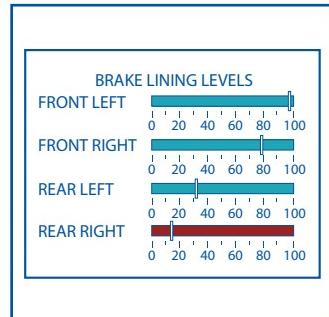
If there is a malfunction on a system an exclamation mark appears against the system name.

Use warning panel buttons and choose faulty system name to see diagnose malfunction code.



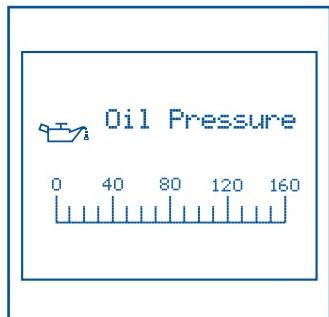
Press button 2 to shift next malfunction.

Brake Lining Screen



Hold button "4" a few seconds to reach diagnose screen.
Front left, front right, rear left and rear right brake lining levels displayed in this menu.

Oil Pressure Indicator



Hold button "5" a few seconds to reach oil pressure indicator.
Displays current engine oil pressure.
The current engine oil pressure is displayed in the electronic menu of the warning panel.

Information Menu

-----SETTINGS-----
PROGRAM VERSION

KIBES32:
CAVTAN:

TEMSA TS-45

Hold button "6" to display information about the vehicle.



2.3.2 Instrument Panel

Icon	Warning Text	Error Explanation	Main Warning Panel Lamp Status	Voice Status
	Cooling Water Hot	Engine temperature is high. Engine is overheating.	Warning Lamp I (Red)	Available
	Engine Compartment Lid Open	Engine lid is open.	Warning Lamp II (Yellow)	Unavailable
	Oil Pressure Low	Engine oil pressure is low or too low. Lubricating oil level is above or below specification.	Warning Lamp I (Red)	Available
	Transmission Temperature Warning	Transmission temperature is high. Transmission is overheating.	Warning Lamp II (Yellow)	Unavailable
	Fault Gearbox	General gearbox error	Warning Lamp II (Yellow)	Unavailable
	Engine	Serious failure on engine.	Warning Lamp I (Red) Warning Lamp II (Yellow)	Unavailable
	Engine Stopped	Engine stop warning. Engine needs to be serviced at the first available opportunity.	Warning Lamp I (Red)	Unavailable

2.3.2 Instrument Panel

Icon	Warning Text	Error Explanation	Main Warning Panel Lamp Status	Voice Status
	Electric Drive Fault 1 Alternator Down	Alternator 1 is not charging or insufficient charging	Warning Lamp II (Yellow)	Unavailable
	Electric Drive Fault All Alternators Down	Alternators are not charging or insufficient charging	Warning Lamp II (Yellow)	Unavailable
	Fire Warning	Fire break out on vehicle.	Warning Lamp I (Red)	Available
	No Battery Charge Voltage Low	Battery voltage is under 23 V.	Warning Lamp I (Red)	Unavailable
	Cooling Water Low Check Level	Engine coolant level is low.	Warning Lamp II (Yellow)	Available
	Luggage Compartment	Luggage compartment lid is open.	Warning Lamp II (Yellow)	Unavailable
	Air Pressure Low Front Brake	Front axle pressure is low.	Warning Lamp I (Red)	Available

2.3.2 Instrument Panel

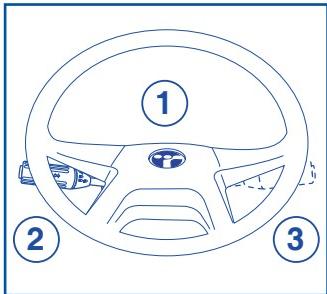
Icon	Warning Text	Error Explanation	Main Warning Panel Lamp Status	Voice Status
(2)	Air Pressure Low Rear Brake	Rear axle pressure is low.	Warning Lamp I (Red)	Available
△	Front Door Air Pressure Low	Front door air pressure is low.	Warning Lamp II (Yellow)	Unavailable
(1)	Front Brake Air Pressure High	Front axle pressure is high.	Warning Lamp I (Red)	Available
(2)	Rear Brake Air Pressure High	Rear axle pressure is high.	Warning Lamp I (Red)	Available
○	Brake Lining Insufficient Check Diagnostic	Brake linings failure.	Warning Lamp I (Red)	Unavailable
	Service Air Filter	Air filter warning.	Warning Lamp II (Yellow)	Unavailable
!	Check Diagnostics	Diagnostic failure.	Warning Lamp II (Yellow)	Unavailable

2.3.2 Instrument Panel

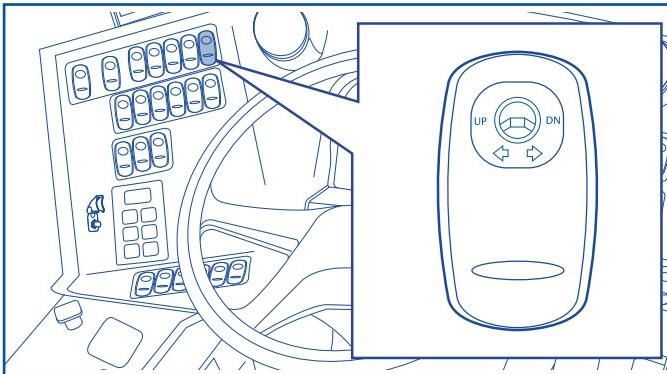
Icon	Warning Text	Error Explanation	Main Warning Panel Lamp Status	Voice Status
	WC Tanks Full/Empty	Toilet clean water tank empty or lavatory waste tank is full.	Warning Lamp II (Yellow)	Available
	WC Emergency Warning	Toilet emergency button pressed.	Warning Lamp I (Red)	Available

2.3.3 Steering Wheel Control Group

Steering Wheel Position Adjustment



- 1 Steering Wheel Position Adjustment
- 2 Left Control Lever
- 3 Retarder Control Lever (Optional)



To adjust steering wheel position, press "Steering Control Switch" located on left control panel. (See also page 33)

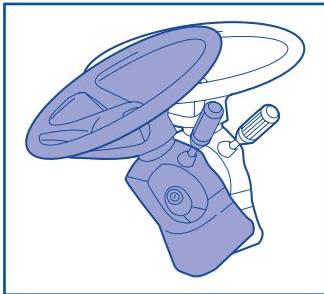
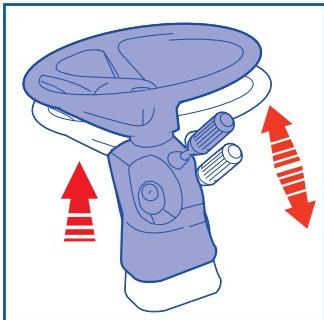
Adjust the position of steering wheel to the desired position. Press button again to lock the mechanism.

It is suggested to adjust the position of drivers seat, before adjusting the steering wheel position.



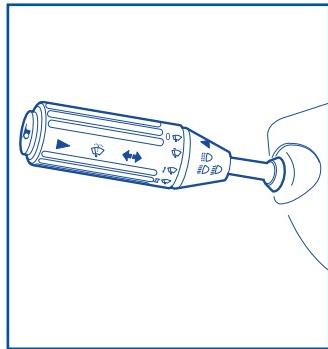
WARNING

- Never drive before relocking the mechanism.
- Steering wheel adjustment must be performed only when the vehicle is stationary and the parking brake is activated.



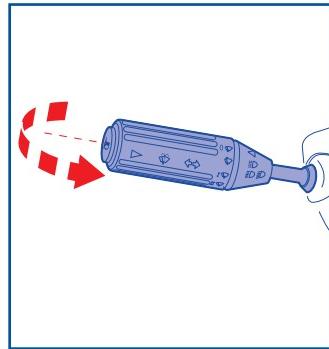
2.3.3 Steering Wheel Control Group

Left Control Lever



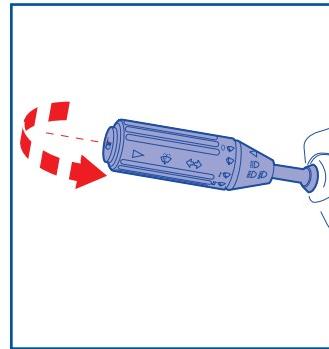
Enables the control of headlamps, high beam headlamps, turn signals, horn and windshield wipers.

High Beam Headlamps



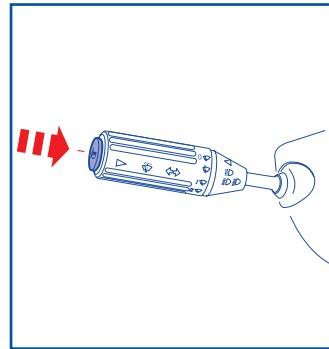
To turn on high beam headlamps continuously push the control lever to second level.

Headlamp Flasher



Push the control lever to the first level. The lever returns to "Off-Position" when it is released.

Horn



Press button to activate the horn briefly.



INFORMATION

None of the functions can be used when the ignition key is switched off.



VISUAL INSPECTION

Warning lamp located on warning panel lights up as long as the high beam headlamps are on.

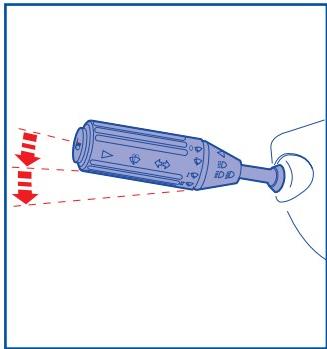


VISUAL INSPECTION

Warning lamp located on warning panel lights up unless the lever is released.

2.3.3 Steering Wheel Control Group

Right Turn Signal



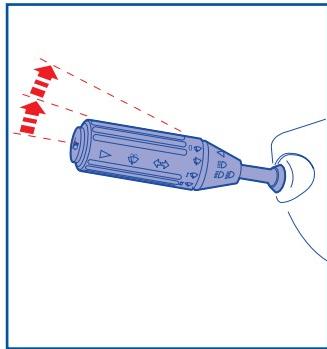
Move the control lever forward to utmost degree to activate right turn signal.



VISUAL INSPECTION

Corresponding warning lamp located on warning panel flashes as long as right or left turn signal lever is activated.

Left Turn Signal



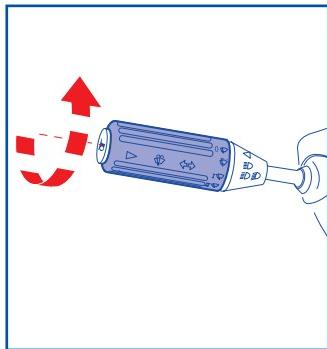
Move the control lever toward you to utmost degree to activate left turn signal.



INFORMATION

When the steering wheel is turned to its normal position, turn signal is switched off automatically.

Windshield Wiper



Adjust the speed of wipers by rotating the front part of control lever in the direction of the arrow.

O: Windscreen wipers are off.

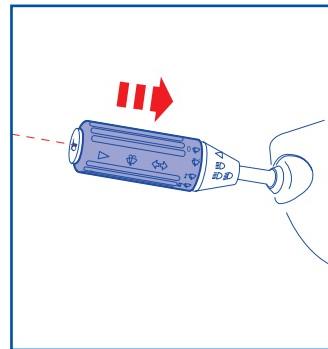


: Periodic wiping

I: Slow wiping

II: Fast wiping

Windshield Washer



Push the lever in the direction of the arrow to spray washer fluid and activate the windshield wipers to wipe three times.

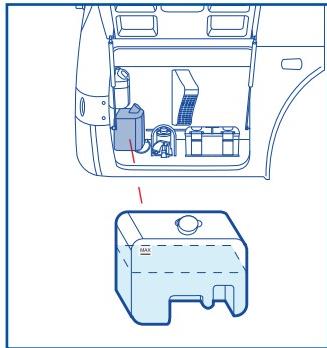


INFORMATION

To wash and wipe the windshield continuously, hold the front part of the lever toward steering column.

2.3.3 Steering Wheel Control Group

Windshield Washer Fluid



Open the access hatch. Pull the cap of the tank and pour the fluid into it.



WARNING

Always use clean and filtered washer fluid.

Retarder Control Lever (Optional)

To apply retarder brake function, move the lever gradually to provide sufficient auxiliary braking (retarder) power.



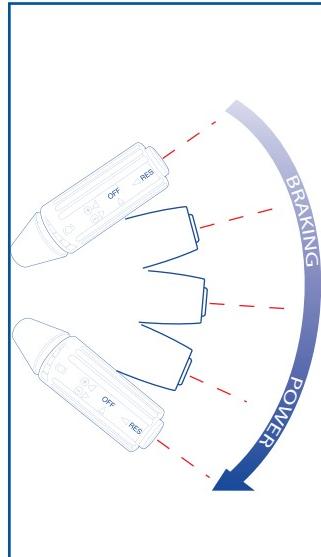
INFORMATION

- Retarder system has five levels.
- First level of retarder system maintains a steady speed on gradients.
- Vehicle prolongs accelerating at first level of retarder system, as long as the accelerator pedal is pressed.
- Retarder cannot be applied under speed of 18.64 mph. (30 km/h).



OPTION

This feature depends on customers request. It may not exist in all models of the vehicle.



WARNING

- Retarder may not be sufficient for full braking power while driving at low speeds. Therefore, service brake must be applied in addition to retarder in such a case.
- Never activate retarder brake on slippery road, tires might get blocked and vehicle might sway.



TEMSA CONSULT AUTHORIZED SERVICE

Consult with the nearest authorized TEMSA service if retarder fault warning appears on display.

2.3.4 Lateral Control Panel

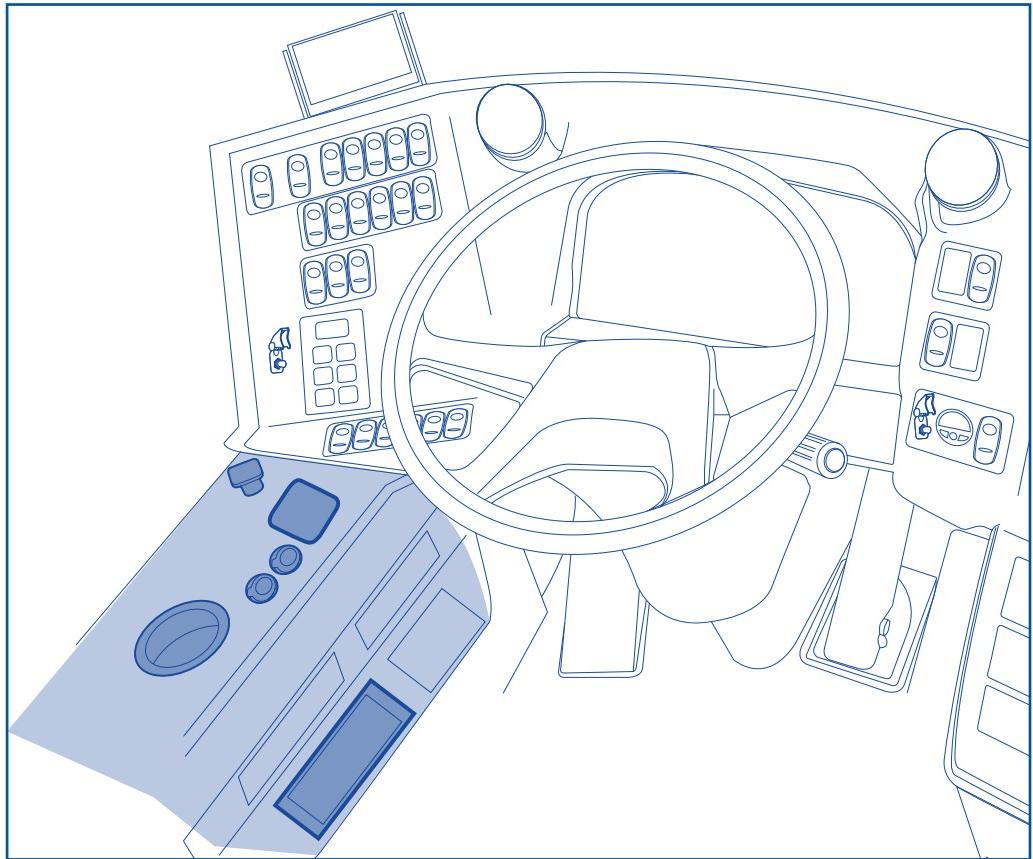
2.3.4.1 Parking Brake

2.3.4.2 Mirror Control Switch

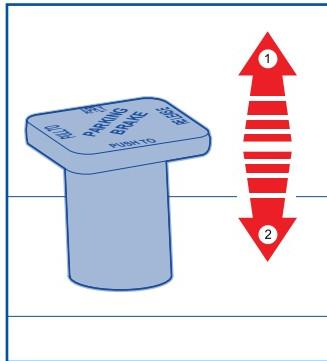
2.3.4.3 12V Electric Socket

2.3.4.4 Driver's Document Box

2.3.4.5 Cup Holder



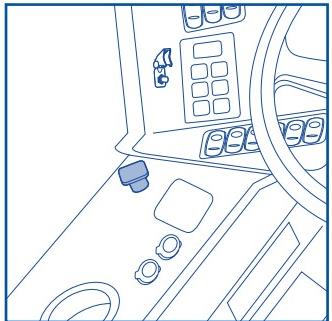
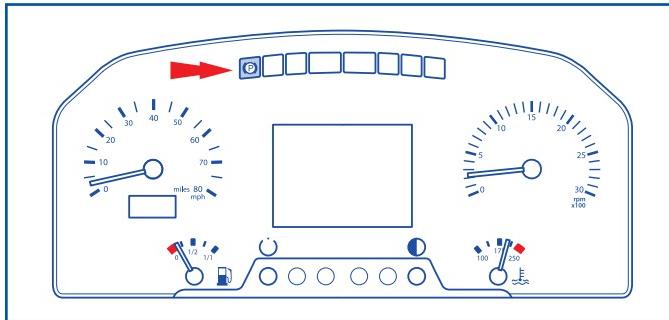
2.3.4.1 Parking Brake



Prevents the vehicle from sliding after it is brought to a stop.

To activate the parking brake, pull the lever upwards (1).

To release the parking brake, push the lever downwards (2).



VISUAL INSPECTION

"PARKING BRAKE" (P) lamp located on indicator panel lights up when the parking brake is activated. It turns off when the parking brake is released.

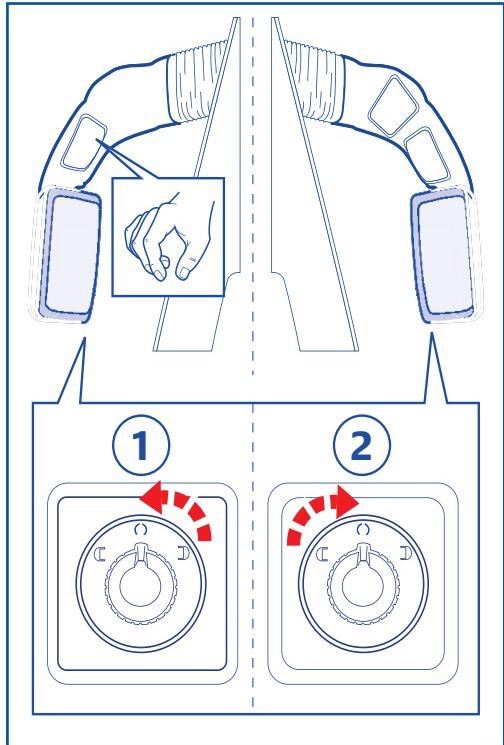
WARNING

Check the air pressure of the system if the warning lamp does not turn off although the parking brake is released. In such a case consult authorized TEMSA Service before continuing to drive.

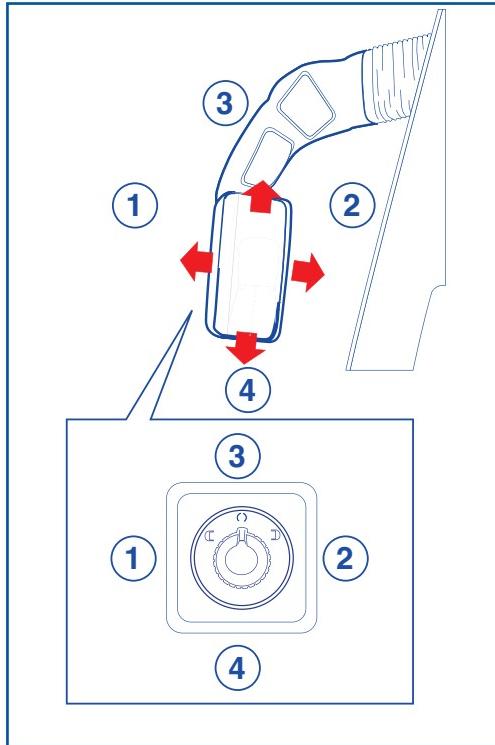
WARNING

Never activate the parking brake while driving except in emergency situations.

2.3.4.2 Mirror Control Switch



1 Left Rear View Mirror
2 Right Rear View Mirror



1 Left
2 Right
3 Up
4 Down

Adjust position of the bottom mirror by using the switch. Mirror moves in the same direction as the arrows on the switch.

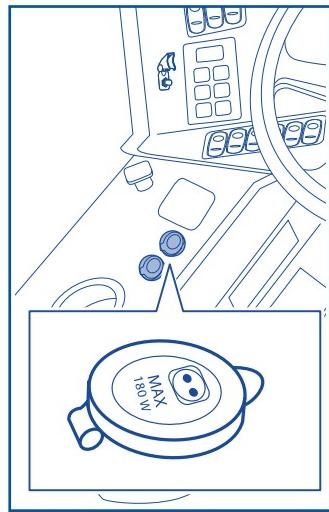
Rotate the switch to select left or right mirror. The Upper mirror can be adjusted manually.



OPTION

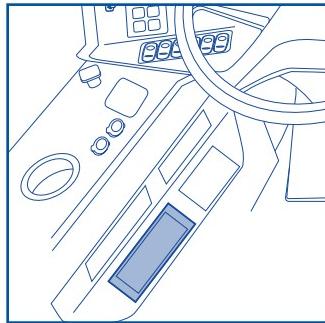
Rear view mirrors may vary according to customers request.

2.3.4.3 12 V Plug



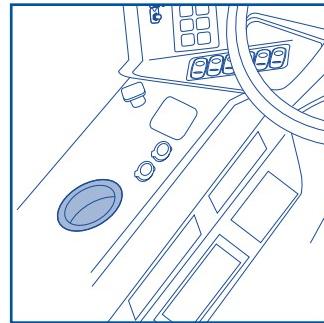
Supplies 12 V DC when the ignition key is switched to position “1” or “2”. Use only accessories such as phone charger, coolers, fans etc. Maximum available current is 10 A.

2.3.4.4 Driver's Document Box



Documents and other non heavy personal belongings can be stored in this box.

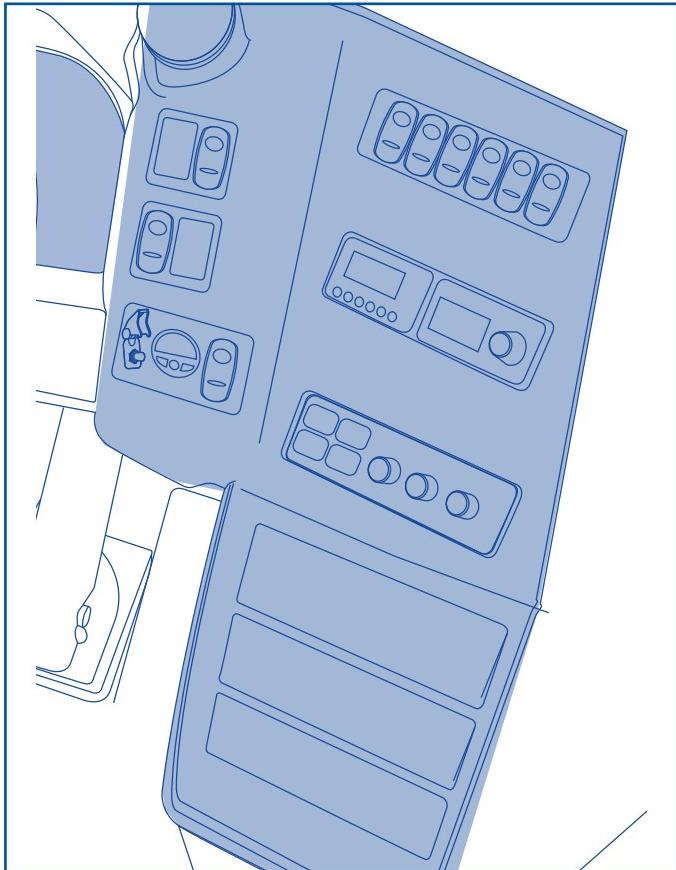
2.3.4.5 Cup Holder



WARNING

- Liquid inside the cup may spill in case of sudden acceleration or braking.
- Hot liquid could cause injury and accident.

2.3.5 Right Control Panel



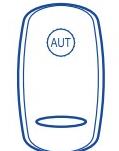
Battery Charge Warning Lamp

Lights up when battery charge level decreases.



Low Fuel Level Warning Lamp

Lights up when fuel level is low.



Transmission Power/Eco

Press button to activate/deactivate transmission power mode.



Front Door Control Switch

Opens the front door from driver's compartment.



Hazard Warning Flasher Switch

Press upper side of the switch to activate hazard warning flashers.

When the switch is pressed, indicator led on the switch, turn signal indicators on the indicator panel and all signal lamps start flashing.

Press lower side of the hazard warning flasher switch once again to deactivate flashers.



INFORMATION

Hazard warning flashers can be activated even if ignition key is removed.



INFORMATION

Hazard warning flashers are also activated when the "Emergency Stop Switch" is pressed.



Aisle Lights Switch
Press upper side of the switch to turn aisle lights on.



Interior Light Switch
Turns on corridor lamps.



Reading Light Switch
Turns on night and passengers' reading lights.



Night Light Switch
Turns on night lights.



Drivers Reading Lamp Switch
Press upper side of the switch to turn drivers reading lamp on.

INFORMATION

1st Position: Three lamps at the right hand side and three lamps at the left hand side light on.

2nd Position: One lamp at the right hand side and two lamps at the left hand side light on.

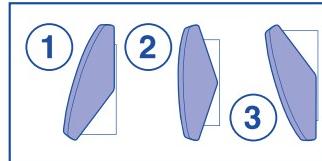
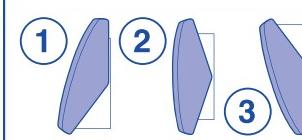
3rd Position: Off Position

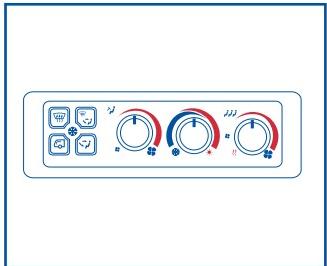
INFORMATION

1st Position: Night lamps and passengers' reading lights on.

2nd Position: Passengers' reading lights on.

3rd Position: Off Position



Defroster Control Panel

Press the button to direct the air towards the windshield for defrost



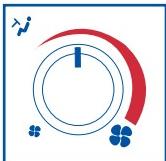
Press button to direct the air to the windows, upper side and lower side of the driver.



Press button to direct the air to the upper side and lower side of the driver.

**Recirculated Air Button**

Press button to activate recirculated air mode.

**Driver's Side Fan Speed Adjustment Button**

Rotate the knob to adjust fan speed on driver's side.

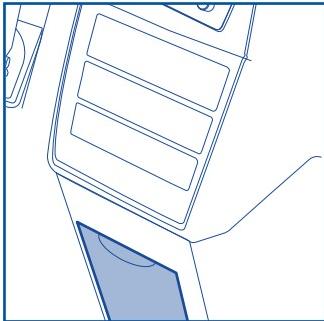
**Temperature Adjustment Button**

Rotate knob to adjust temperature.

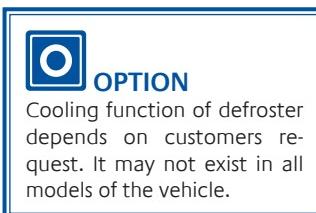
Blue: Cold air
Red: Hot air

**Coach air circulation fan speed adjustment knob**

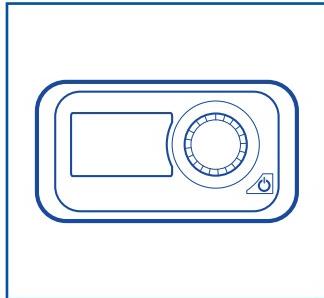
Rotate the knob clockwise to increase the speed of the fan which is located in the luggage compartment. Fan speed may need to be increased when the side windows become foggy.

Driver's Glove Box

Pull it to open.



A/C Control Panel



Press button to activate and deactivate air conditioner.



Turn switch to set temperature degree.

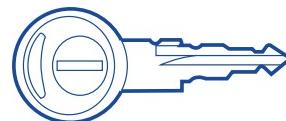
INFORMATION

Refer to user's manual of air conditioner control panel delivered with the vehicle for more information.



2.4 Keys

Toilet Door Key



3 different keys are provided with the vehicle.

In case the keys get lost, consult authorized TEMSA Service to order.

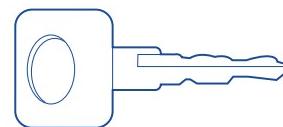
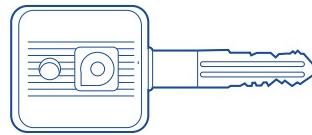


OPTION

Keys of new additional equipment may be different from those indicated in user's Manual.

Fuel Tank Access, Front Door, Engine Compartment, Service Hatch Key and Glove Box Key

Ignition Key





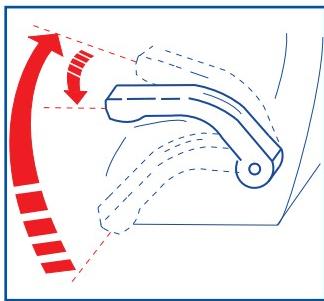
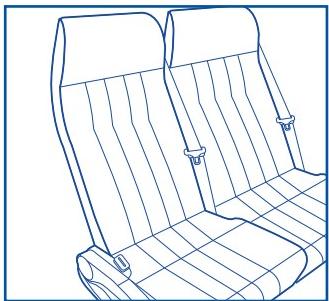
03

VEHICLE INTERIOR

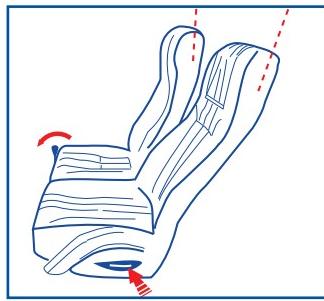
- 3.1 Passenger Seats
- 3.2 Seat Belts
- 3.3 Passenger Control Group
- 3.4 Emergency Situation Equipment
- 3.5 Accessories

3.1 Passenger Seats

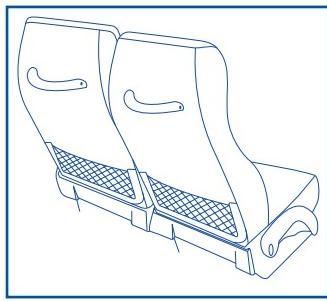
Armrest



Upright Position Adjustment
Lever



Seat Pocket



OPTION

Model, type and specifications of passenger seats may differ from those stated in this User's Manual.

Pull the armrest upwards to the utmost degree to open it. Release the armrest after it is locked. Armrest would stay stationary at that position.

To close the armrest, pull the armrest to the utmost degree again and push to lowest level after it is released.

Pull the lever in the direction of the arrow to adjust upright position.

When using the seat pocket the item in the pocket should not extrude more than 10cm/4inch above the top of the pocket and weight no more than 1kg/2.2lbs.



OPTION

This feature is optional. It may not exist in all models of the vehicle.

3.2 Seat Belts



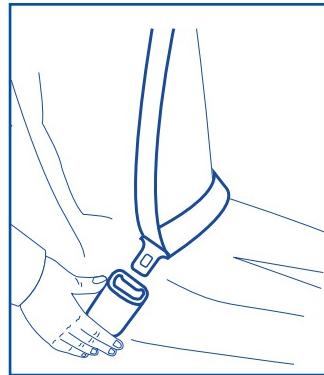
Passenger seats are equipped with three-point seat belts. It is of vital importance to use seat belts during travel. Inform the passengers about wearing seat belt before driving.



WARNING

- Seat belts have vital importance. Therefore, use only TEMSA genuine spare parts.
- Check all the belts function properly before starting to drive. Pull the belt sharply against retractor to confirm that automatic lock mechanism is working properly. Consult with authorized TEMSA service in case of any problem related to connection and lock elements.
- No objects other than the buckle latches should be inserted into the belt buckle.
- Pull the seat belts to check all buckle latches if they are inserted into their buckles or not.
- Seat belts worn during the travel keep tense position. It is recommended for the passengers not to carry stiff objects such as pen or cell phone in their pockets. Inform the passengers on this matter.

Use of Seat Belts For Adults



Insert the buckle latch into the belt buckle to fasten seat belt.



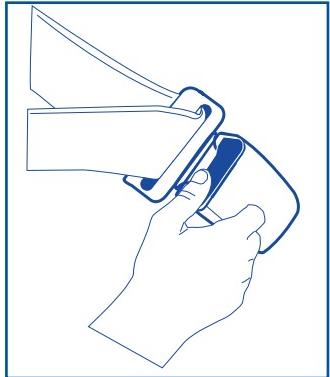
AURAL INSPECTION

Insert the buckle latch into the belt buckle until it engages audibly.



WARNING

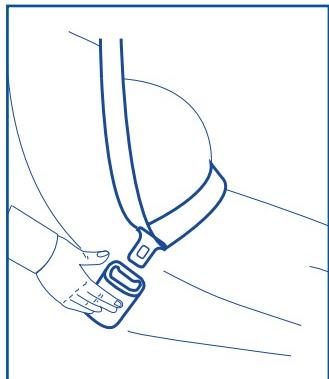
Seat belts provide maximum safety when passenger seats are at upright position. When the seats are reclined at an extreme degree, sliding may occur resulting with injuries.



Press the latch on the belt buckle to release the seat belt.

3.2 Seat Belts

Use of Seat Belts for Pregnant



Proper usage of seatbelts during pregnancy will not affect babies or mothers adversely.

Seat belts should be fastened from the lower side of abdomen by pregnant so as to prevent compression.

Passenger seat should be kept at the upright position as much as possible to provide safer use for pregnant.

Use of Seat Belts for Children

Passengers of ages 0-10 should be attended for the use of seat belts safely. Seat belt may not be tightened enough depending on the size of the passenger. In such a case, a cushion should be put on the seat surface so as to ensure that the seat belt is fastened at the proper tightness in order to prevent the passenger from sliding off the seat.



WARNING

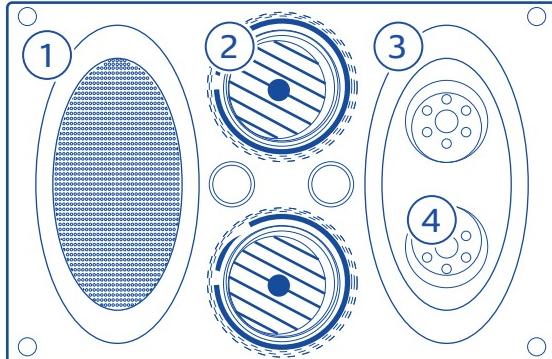
Check that lap belts are run over passengers' hips and not over their abdomen/waist. Pressure is applied on hipbone instead of abdomen in the event of an accident and prevents from severe injuries.



INFORMATION

Check that seat belts are correctly seated and they function properly during travel and tighten if necessary.

3.3 Passenger Control Group

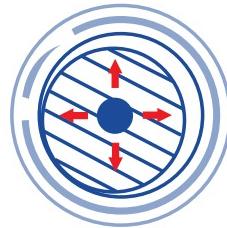


1. Passenger Speaker
2. Passenger Air Vents

3. Passenger Reading Lights
4. Reading Lamp Button

Passenger Air Vents

Cool air transferred by the air conditioner is conducted to the passengers via air vents.

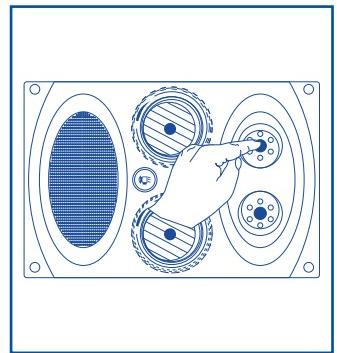


Air outlet can be controlled by moving the ring.



Rotate the vents counterclockwise to open the air vents; rotate the vents clockwise to close the air vents.

Reading Lamp Button



Press button to turn on reading lamps.



INFORMATION



Press "Reading Light Switch" located on right control panel to activate passenger reading lamp switches. (See also page 58)

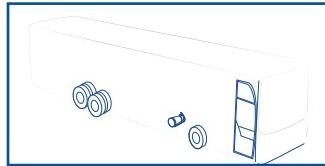
3.5 Emergency Situation Equipments

Fire Extinguisher

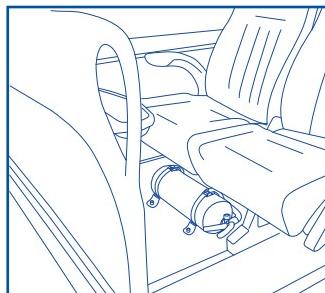
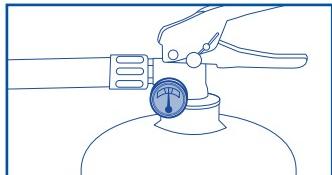


INFORMATION

The fire extinguisher is to be used in the event of a fire to prevent the fire from spreading.



Check the pressure indicator of the fire extinguisher according to state fire laws. It is under driver's responsibility to ensure that charge level is within acceptable range.



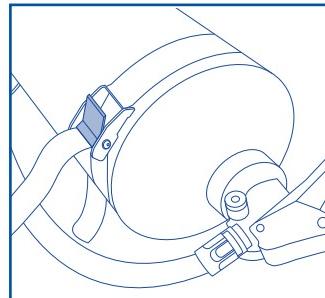
Access

Fire extinguisher is located under the first row passenger seats on the right hand side of the vehicle and its denoted by a label.

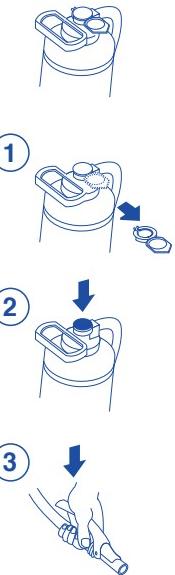


OPTION

Location of fire extinguishers and their volume may vary according to customers request. Location of the fire extinguisher may differ from the one indicated in this User's Manual.



Usage



1. Pull extinguisher's safety pin.
2. Press the button on the top of the extinguisher.
3. Ensure that fire extinguisher is in a vertical position. Aim the nozzle at the base of the fire and squeeze the handle to discharge the agent.

3.5 Emergency Situation Equipments

Fire Instructions

Driver Duties

- Before starting a journey, the driver must check:
 - The tire pressure (visual check on a daily basis - test tires on a weekly basis).
 - No liquids are leaking on pavement (visual check).



WARNING

Ensure that no oil exits from the muffler and that you see no excessive blue smoke (turbocharger oil consumption).

- The proper functioning of the preheating systems (engine and interior).
 - The exhaust system components are free from debris.
 - When operating a vehicle, the driver needs to:
 - Check the coolant temperature gauge.
- Avoid any overheating.
- After completing a journey, the driver needs to:
 - Inform the technician / next driver of a dysfunction.
 - Hand over to the technician or fleet manager the daily operation report (copy).

- Avoid any overheating.



WARNING

Stop any overheating if the engine, brakes or retarder become overheated/or when sensing unusual odors or smoke, or if noticing smoke visually.

- Make a visual check of the engine compartment and surrounding equipments of the vehicle and inform the technician of any problem.
- When returning a coach:
 - Park the vehicle with the main battery switched off (if applicable). This will disconnect the batteries from the alternator, eliminating a risk of fire due to an internal electrical failure.

Actions to Be Taken In The Event Of a Fire

- (Try to) park the vehicle in a safe area.
- Apply the parking brake.
- Inform passengers to move a safe distance away from the vehicle.
- Open door in order to let passengers get out fast.
- Stop engine / isolate the battery by deactivating the main battery cut-off switch (See also page 170). Switch off the air-conditioning / heating.
- Identify the source of the fire.

3.5 Emergency Situation Equipments

What to do

In the event of a possible fire, evacuate the passengers to a safe area. Always evacuate women and children first.



WARNING

- Never leave the fire area before fire is extinguished completely.
- The Fire Extinguisher should be regularly checked by professionals.



INFORMATION

- Take the direction of the wind into consideration, do not discharge agent against the wind.
- Aim the nozzle directly at ground level and core of the fire.
- Aim first for front parts and then lateral parts of fire.
- Treat first the areas of higher risk which may create danger from heating up.

Emergency Exit Windows

Your vehicle is equipped with emergency windows on both left and right side. Emergency windows are denoted with special labels. Check the windows are functioning properly and the labels are legible.

**EMERGENCY
EXIT**

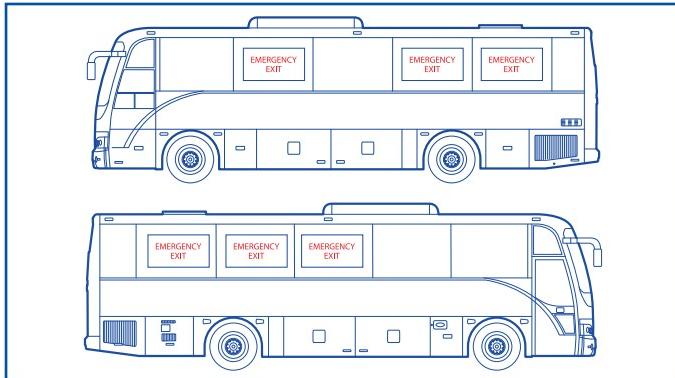


WARNING

Never remove the labels stuck on the emergency exit windows.

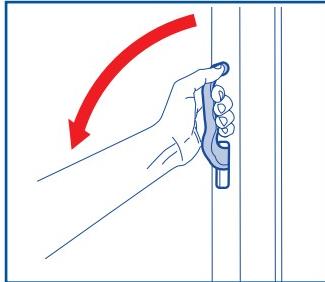
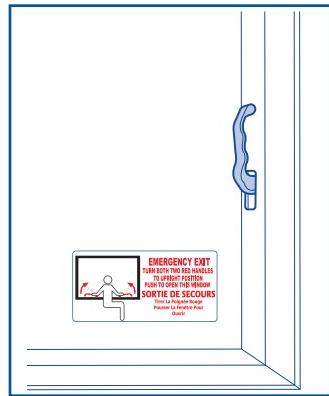


EMERGENCY
EXIT

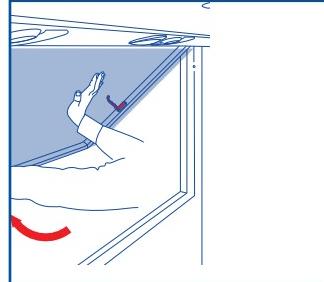


3.5 Emergency Situation Equipments

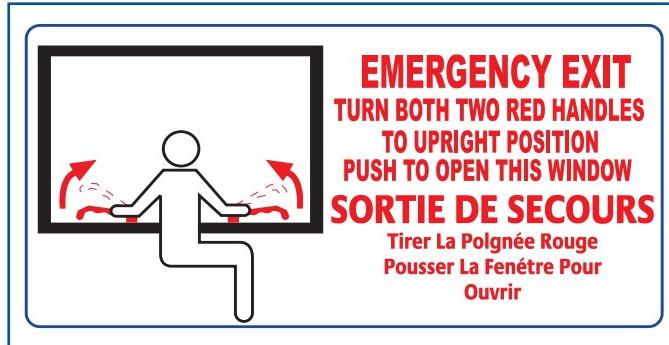
Emergency Exit Windows



Pull both two handles to upright position to release the lock mechanism.



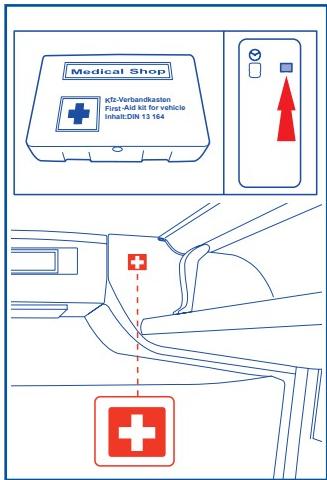
Push the emergency exit window after the lock mechanism is released.



3.5 Emergency Situation Equipments

First Aid Kit

First aid kit is provided inside the vehicle. It is located in driver's overhead luggage rack and denoted with the label shown below.



OPTION

Location, amount and content of first aid kits may vary according to customer request. Therefore first aid kits may differ from that indicated in User's Manual.

INFORMATION

- First aid kit content is not meant for treatment purposes. They are provided for first aid.
- First aid content must only be used by trained people.

First aid kit content is listed below:

- 2 Elastic bandages (6x4)
- 3 Elastic bandages (8x4)
- 2 Triangular bandages
- 4 Disposable gloves
- 1 Scissors
- 1 Adhesive tape
- 8 Adhesive wound tapes
- 3 Sterile aid packages (8x10)
- 1 Sterile aid package (10x12)
- 2 Absorbent bandages (40x60)
- 1 Absorbent bandage (60x80)
- 6 Wound dressings (10x10)

INFORMATION

Check that first aid kit content is present and complete. Replace used items.

Wheel Chocks

Wheel chock is used as a safety device to keep the vehicle from accidental movement.

Set wheel chocks and secure the vehicle when parking uphill or downhill, changing wheels or in a malfunction on brake system or if other circumstances cause it to roll on an incline. Otherwise vehicle may skid.

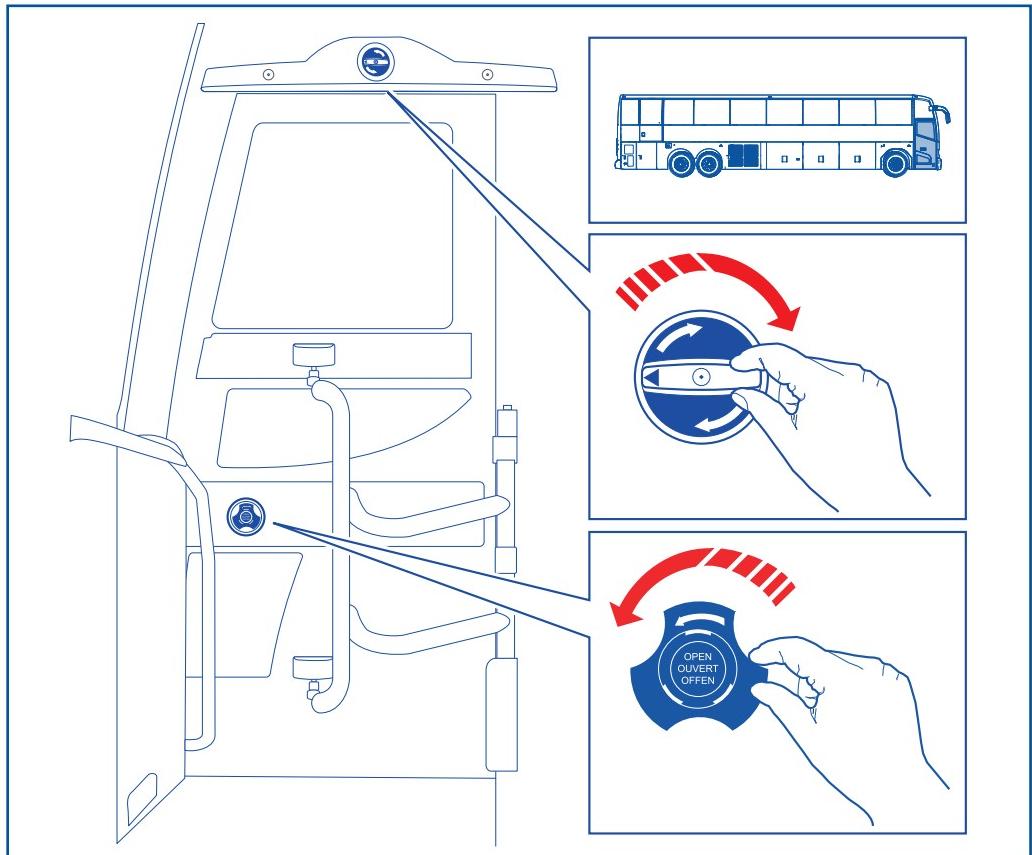
Set wheel chock under tires in the direction of the grade. If it's uncertain which direction is the grade, the wheels should be chocked on both sides. Ensure that wheel chocks in position and available before driving. Wheel chocks must be available in the vehicle.

Door Emergency Exits Front Door

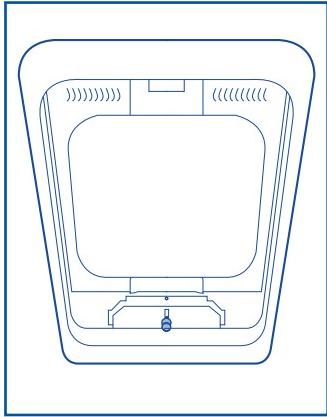
Front door can be opened independently from the driver's control panel in emergencies. Emergency exit valve is located at the top of the door.

In emergency, turn the emergency exit valve clockwise and push the door outwards to open.

If the door is locked from outside, turn the lever anti-clockwise to unlock the mechanism.

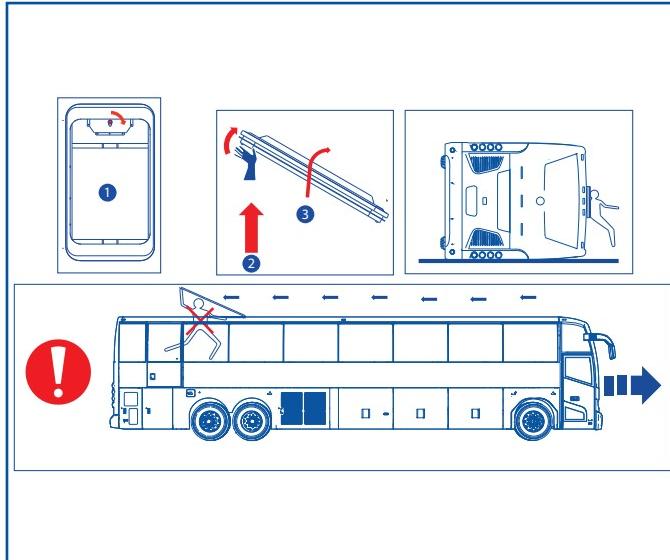


Roof Escape Hatch



In an emergency;

1. Push up
2. Pull the white knob
3. Open the lid

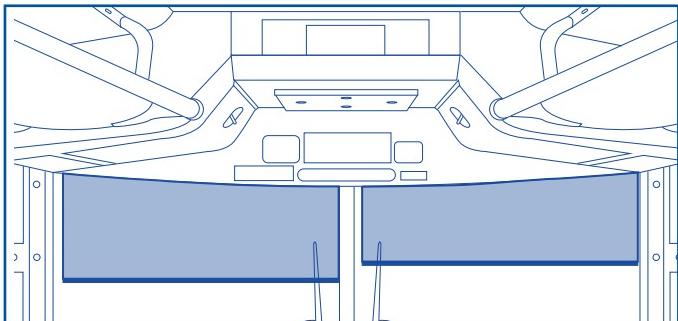


WARNING

- Never remove the labels stuck on the emergency exit windows.
- Never use escape hatches when the vehicle is not stationary.
- It is of vital risk to use escape hatches unnecessarily.

3.6 Accessories

Sun Visor



Keep lower side of the switch pressed to lower driver's sun visor.



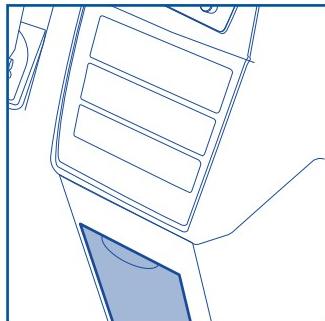
Keep lower side of the switch pressed to lower assistant's sun visor.



INFORMATION

Sun visor control buttons are located on left control panel.

Glove Box

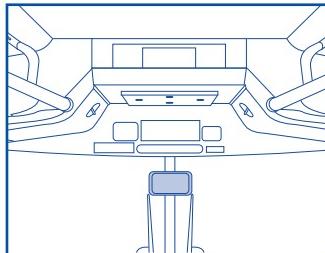


Personal belongings can be stored inside the glove box.

A lock is provided on the glove box hatch. Turn the key anti-clockwise to unlock the hatch and lift to open.

Push the hatch downwards to close and turn the key clockwise.

Rear View Mirror



Allows the driver to see inside of the vehicle.

Adjust the rear view mirror to see inside of the vehicle and doors.

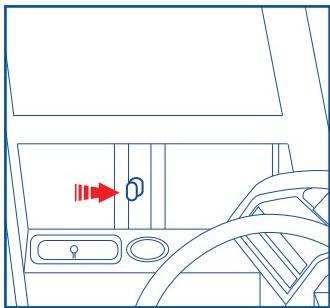


INFORMATION

Rear view mirror is adjusted manually.

3.6 Accessories

Driver's Side Window



Latches are provided with the lock mechanism of the windows.

Press the latch and slide the window to the right to open.

Hold the latch and slide to the left to close the window.



WARNING

Always hold latches from outer parts. Otherwise your hand may get caught.

Driver's Side Sun Visor

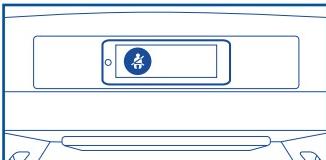


Pull the black knob to move the sun visor downwards.

Pull and release the white knob to move the sun visor upwards.

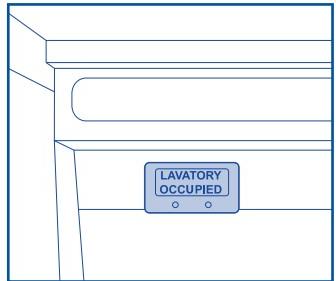
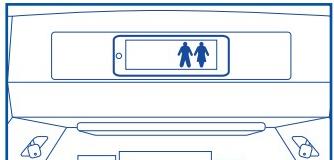
Digital Indicators

Seat Belt Indicator



Indicates that passengers must fasten their seat belts.

Toilet Indicator



Indicates that the toilet is in use.



OPTION

This feature is optional. It may not be included in all models.



INFORMATION

Toilet indicator lamp lights up when the toilet door is locked from inside.

3.6 Accessories

Lift Mechanism (Optional)

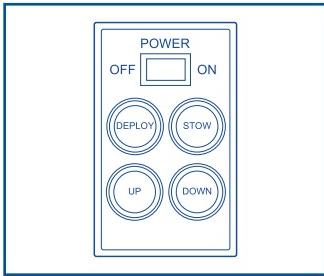
Getting on/off the bus is made easier for the wheelchairs passengers or passengers with baby stroller.

Lift mechanism can be controlled from outside the vehicle. Press "Lift Active Switch" located on left control panel to activate lift mechanism control panel.



OPTION

This feature is optional. It may not be included in all models.



Power Enable: Provide power to the pendant and thereby enable the lift.

Deploy Button: Extend platform from the lift storage compartment. **Stow Button:** Retract the platform back into the storage compartment.

Down Button: Lower the platform towards the ground.

Up Button: Raise the platform towards the vehicle floor.

Button must be held depressed until the motion is completed. Movement of the platform can be halted at any time by releasing the button.

Operating Lift Mechanism

1. Switch ignition key on position "2" and run the engine.
2. Activate parking brake.
3. Ensure the vehicle is steady.
4. Switch gear into neutral position.
5. Press "Lift Active Switch" located on left control panel.
6. Ensure lift door is open.
7. Control lift mechanism by using lift mechanism control panel located outside of the vehicle.



INFORMATION

While lift mechanism is operating;

- Kneeling-Lifting function is disabled.
- Temporary bus stop is activated. Even parking brake is released temporary bus stop prevents moving.
- Vehicle is prevented to move until lift is stowed again into its place.



WARNING

- Do not exceed rated load capacity of 660 pounds (300 kg).
- Inspect lid before use. Do not use lift in unsafe condition exits or if unusual noise or movement is noticed. Contact authorized Temsa Service.
- Lift mechanism is to be used by one wheelchair occupant only. Do not overload lift.
- Do not allow an untrained person to operate lift.
- Lock wheelchair brakes before raising or lowering platform.

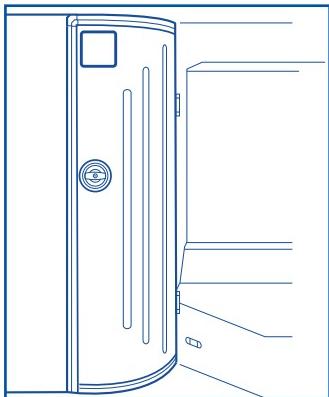


WARNING

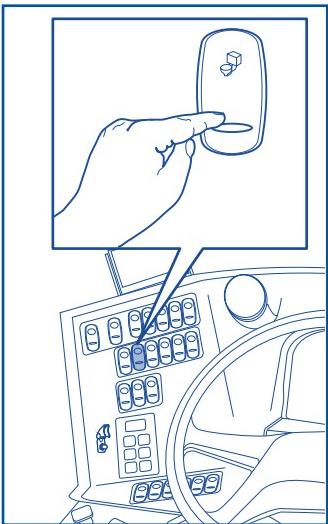
Never try to activate Kneeling-Lifting function when lifting mechanism is in use.

3.6 Accessories

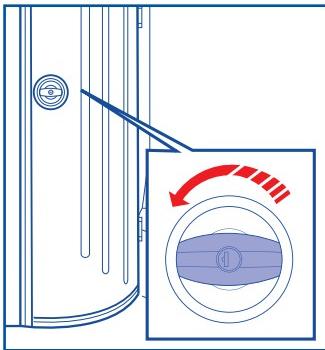
Toilet (WC)



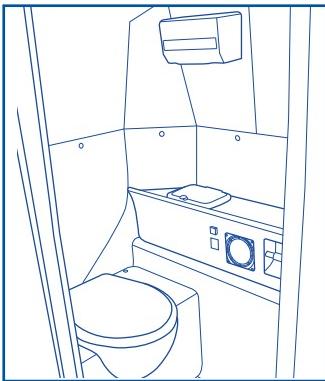
Your vehicle is equipped with toilet unit and denoted by label.



Push "WC Active" button located on the left control panel to activate toilet system.



Rotate the lever counterclockwise and pull it toward you to open the toilet door.



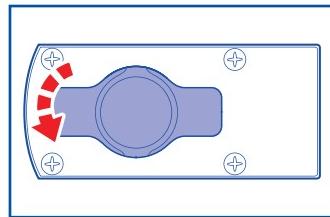
WARNING

Information about toilet usage is denoted by warning labels. Inform passengers before using toilet.

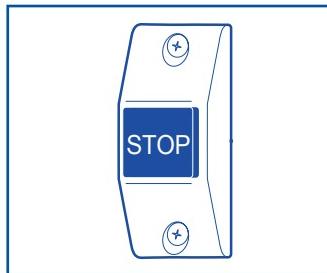


3.6 Accessories

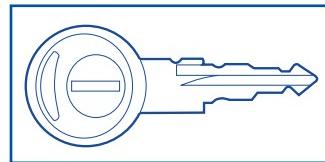
Toilet (WC)



Rotate the lever counterclockwise to lock the toilet door from inside.



Emergency situation switch can be found inside the toilet unit.

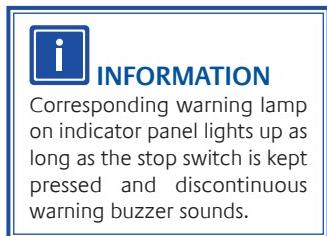


INFORMATION

Use "Toilet Door Key" to open toilet door from outside in case of emergency.

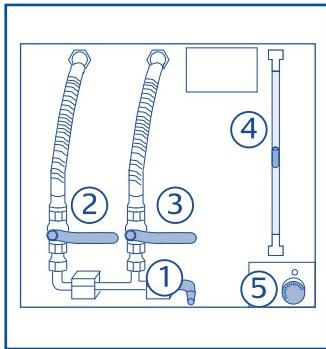
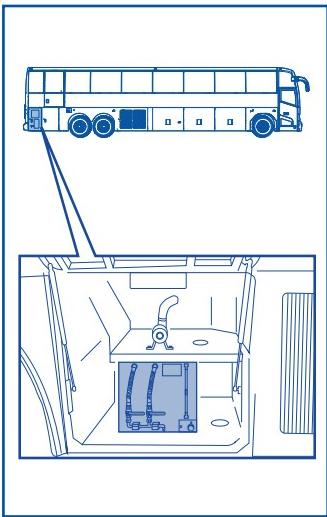


Rotate the lever clockwise to unlock the door and push to open.



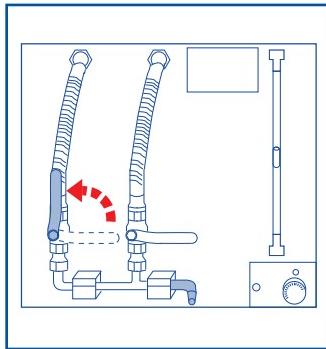
3.6 Accessories

Lavatory Water Tank



1. Clean Water Inlet
2. Inlet Valve
3. By-Pass Valve
4. Level Indicator
5. Thermostat

Filling Up Clean Water Tank



Flush system uses water from this tank. Always fill up the tank with clean tap water.

1. Connect water supply to clean water inlet (1).
2. Pull inlet valve (2) upwards.
3. Check water level.
4. Restore inlet valve (2) to its original position.
5. Disconnect the water supply.



WARNING

- DO NOT overfill the tank.
- DO NOT add anti-freeze agents in to the tank.

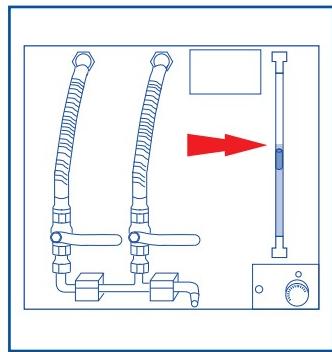


INFORMATION

If clean water tank is empty, a fault message displayed on warning panel.

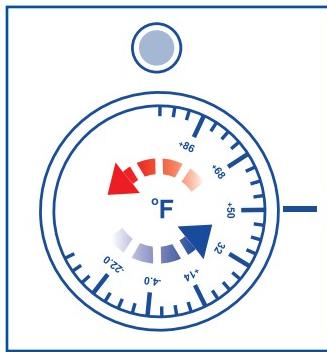
3.6 Accessories

Checking Water Level



If the weather is cold, DO NOT fill the tank completely.

Setting the Thermostat



Set and leave the thermostat at 50° F to prevent freezing.



WARNING

If the weather is cold water tank and water pipes may be frozen. Thermostat system is running only while driving. Drain water tank and lavatory waste tank if the vehicle is to remain unused long period of time.



For drain clean water tank and lavatory waste tank;

1. Discharge lavatory waste tank.
2. Push flush button located in toilet unit as far as water flow is stopped.
3. Discharge lavatory waste tank again.

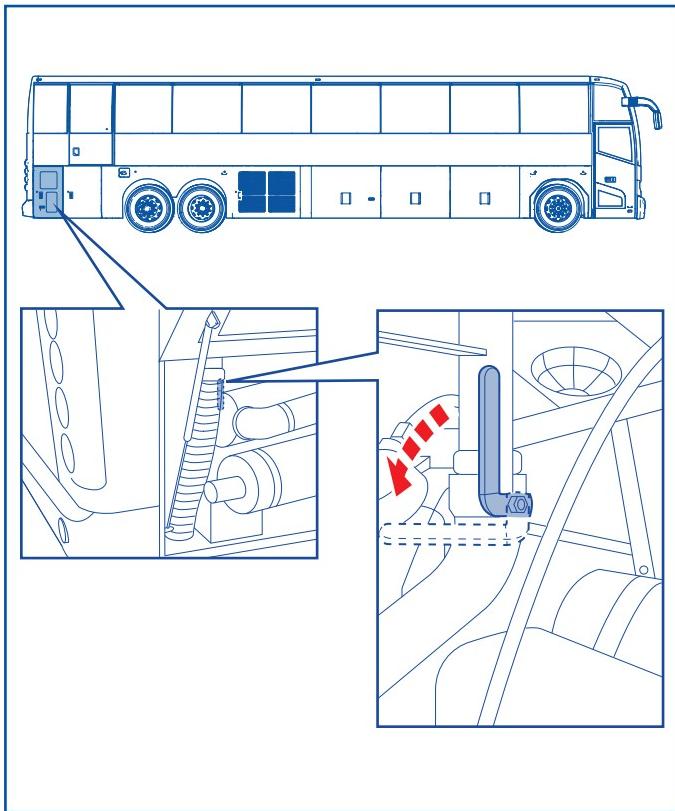


WARNING

Operating the flush when tank is empty may harm pump system. Always check the water level and add water if needed.

3.6 Accessories

Lavatory Waste Discharge



WARNING

Lavatory waste must be disposed of into appropriate and approved Disposal or Dump. Failure to do so may result in serious criminal and/or civil fines, penalties and/or incarceration.



INFORMATION

If lavatory waste tank is full, a fault message displayed on warning panel.



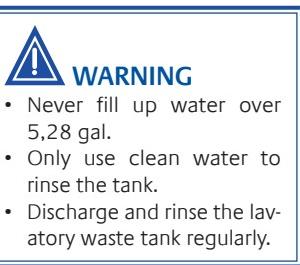
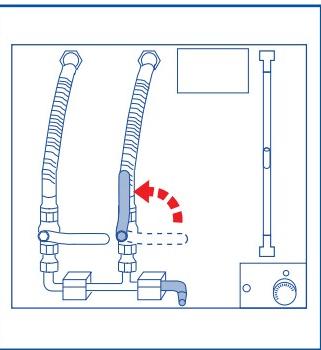
WARNING

Never use toilet unit if lavatory waste tank full.

1. Park the vehicle in a dump station and place your holding tank drain valve as close to the opening of the dump station as possible.
2. Pull the discharge valve lever down.
3. Restore the valve to its original position when discharging is finished.

3.6 Accessories

Rinsing Lavatory Waste Tank



1. Ensure that discharge valve is closed.
2. Connect water supply to clean water inlet (1).
3. Pull by-pass valve (3) upwards.
4. Let the water passes from the valve for three-five minutes to help remove solids left behind.
5. Restore by-pass valve (3) to its original position.
6. Pull the discharge valve lever down to empty the tank.
7. Close the discharge valve and repeat the same procedure for three times.
8. Disconnect the water supply when rinsing is finished.



04

DRIVING

- 4.1 Pre-Driving
- 4.1.1 Driver's Seat Adjustment
- 4.1.2 Driver's Seat Belt
- 4.1.3 Rear View Mirror Sight Adjustment
- 4.1.4 Steering Wheel Adjustment
- 4.1.5 Checking Control Switches
- 4.1.6 Checking Indicator & Warning Lamps
- 4.1.7 Checking Air Pressure
- 4.2 Driving
- 4.3 Emergency Situations
- 4.3.1 Towing the Vehicle

4.1 Pre-Driving

Taking necessary actions before driving prevents possible problems while driving.

To have optimal conditions for your own and passenger's safety, always check all items that may affect driving performance.

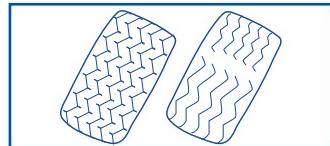
Checking Headlights and Lamps

Check all headlights and external lamps before driving. Consult authorized TEMSA Service in case of any malfunctioning.

Checking Tire Pressures

Check the tires and rims before driving.

 **VISUAL INSPECTION**
Check that tires (also spare tires) are not worn, torn, damaged etc.



Perform tire pressure adjustment according to the values given by the manufacturer for different weather conditions. (See page 150)
Check that all rims are installed and fixed properly.

 **WARNING**
Tire pressure increases while driving. Check tire pressure when tires are cold.

Checking Systems for Leaks

Check fuel and lubrication systems of the vehicle for leaks before driving.

 **VISUAL INSPECTION**
Consult authorized TEMSA Service in case of any leaks in the systems.


Checking Engine Oil

Check the level and colour of the engine oil (see page 178).

 **INFORMATION**
Check the engine oil level when the engine is stopped and warm, wait till the oil flows back into the sump. Park the vehicle on level ground to get an accurate oil level reading.

Checking Coolant Level

Check the level of coolant before driving (see page 129).

 **VISUAL INSPECTION**
Consult authorized TEMSA Service when coolant level is low.
Do not top up the tank before consulting the TEMSA Service. systems.


4.1 Pre-Driving

Windshield Washer Fluid

Check the level of windshield washer fluid before driving. Top up the fluid if the level is low (see page 54).



WARNING

Hard water minerals may block the washer sprays.

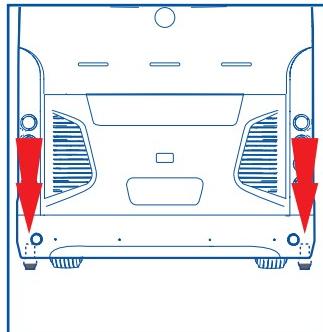
Checking Luggage

Check that luggage in the luggage compartment is correctly fixed.

According to traffic conditions sudden acceleration and deceleration may cause luggage sliding and hitting the luggage compartment walls. Arrange the luggage in order to prevent this.

Checking A/C Drain Off Nozzle

Check that air conditioner drain off nozzle is not blocked.



Knob at the end of the air conditioner nozzle may get blocked due to weather conditions.

The performance of the air conditioner would be inversely affected if condensate is not drained off.

Checking Emergency Situation Equipment

Check the emergency situation equipment before driving. Check the emergency equipment is fully functional.

Jack, spare tire, bulbs, spare fuse, first aid kit, fire extinguisher, wheel nut, lug wrench, chock, auxiliary rods and tool bag must be kept ready for use.

Warning and information labels are provided inside the vehicle. Inform the passengers about these labels and what to do.



INFORMATION

- Check that first aid kit contents are complete.
- Check the fire extinguisher has been serviced.

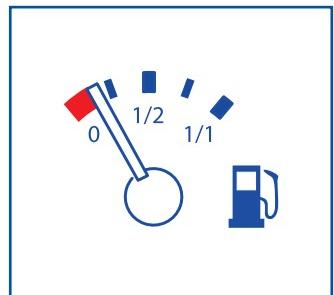
Checking Doors and Hatches

Check that all doors and lids are closed and locked before driving. Check that doors and lids are closed properly using rear view mirrors.

Checking Fuel Level

Check the fuel level by using the corresponding indicator located on instrument panel. Top up the tank with correct fuel if needed.

Do not wait until the fuel is completely consumed before refueling. Air remaining inside the tank may cause engine malfunction.



INFORMATION

Fuel level can be monitored in percentages through display.

4.1.1 Driver's Seat Adjustment

Driver's seat adjustment is customized to provide the optimum comfort for the driver during travel.

Driver's seat adjustment must allow easy access to service pedals, warning and operating lamps and the rear view mirrors must be fully visual.



INFORMATION

- Maximum weight capacity of driver's seat is 150 kg / 331 lbs and pressure of 7 bar / 102 psi.
- Driver's seat adjustment buttons are located at right side of the seat.

Driver's seat position can be adjusted with control buttons located on the seat.

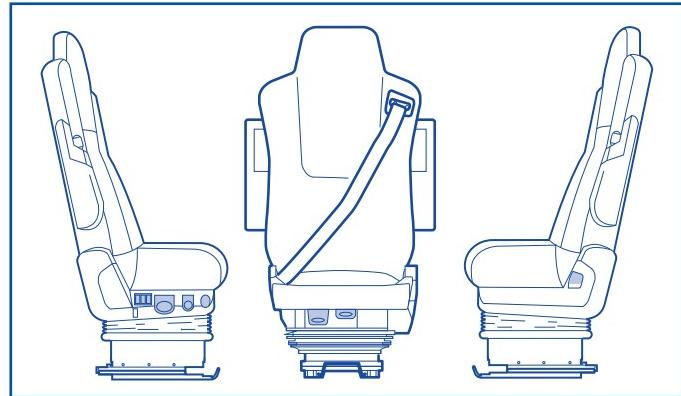
- Height
- Suspension Hardness
- Fast Descend
- Cushion Depth
- Seat Upright Position
- Cushion Forward and Backward Slide
- Seat Forward and Backward Slide
- Lower Lumbar Support
- Upper Lumbar Support

Can be adjusted with these buttons.



WARNING

Adjustment must be performed when the vehicle is stationary. Adjustments performed during travel may cause accidents.



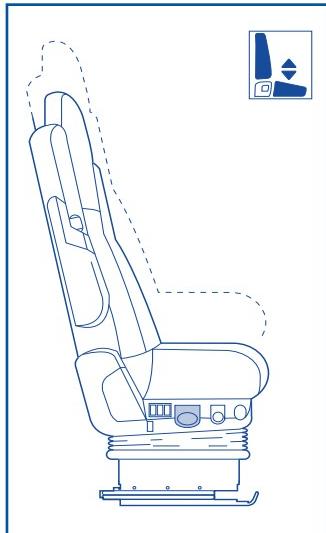
OPTION

Some features may differ according to customer request.

4.1.1 Driver's Seat Adjustment

Height Adjustment

Adjust the height of the seat by pulling/pushing the button.

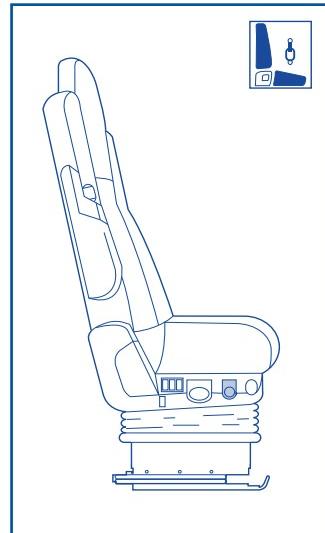


INFORMATION

Ensure that seat system contains air before performing height adjustment. See also "Fast Descend" to have information about how to fill air inside the seat system.

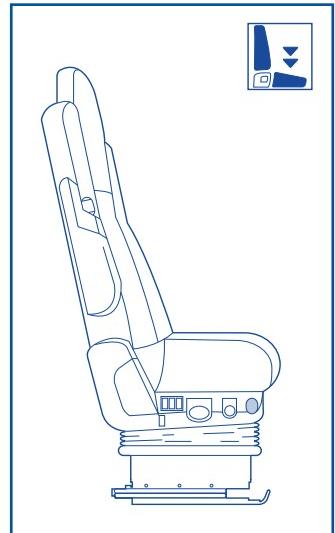
Suspension Hardness Adjustment

Pull the button to loosen seat springs. Push forward the button to harden seat springs.



Fast Descend

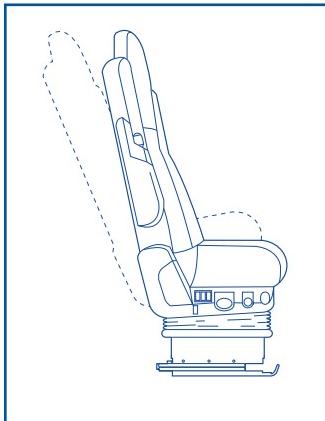
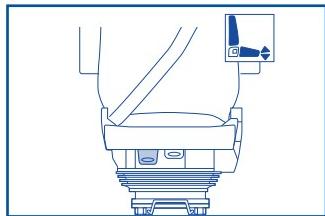
When the button is pressed, air in the system is released and height of the seat decreases.



4.1.1 Driver's Seat Adjustment

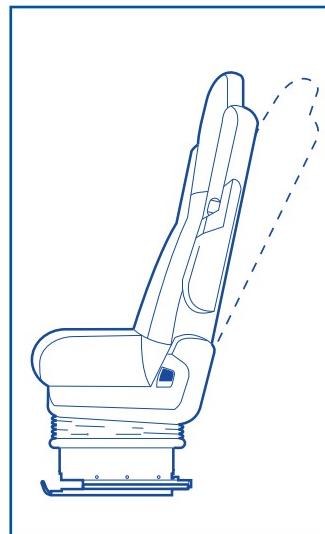
Cushion Depth Adjustment

Keep the button pulled to adjust the cushion depth to desired position. Release the button to stabilize the cushion's position.



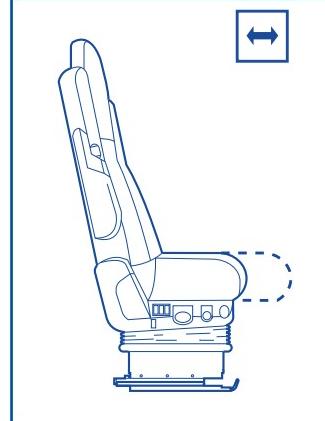
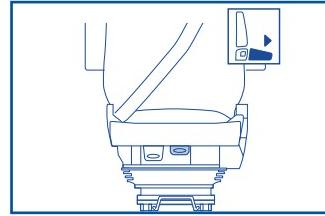
Seat Upright Position Adjustment

Adjustment lever is located at the left hand side of the driver. Pull the lever at utmost degree, adjust the seat to desired position and then release the lever.



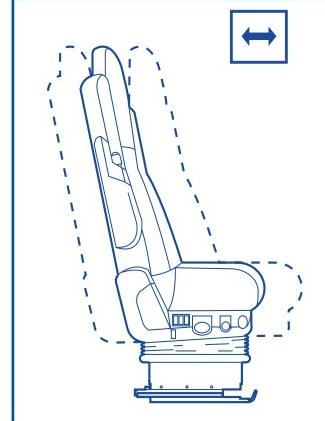
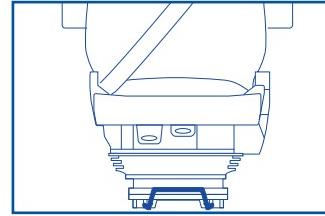
Cushion Forward and Backward Slide Adjustment

Keep the button pulled to perform cushion forward and backward slide adjustment. Release the button to stabilize the seat.



Seat Forward and Backward Slide Adjustment

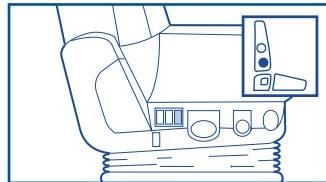
Keep the lever pulled, adjust to the desired position and then release the lever to stabilize the seat.



4.1.1 Driver's Seat Adjustment

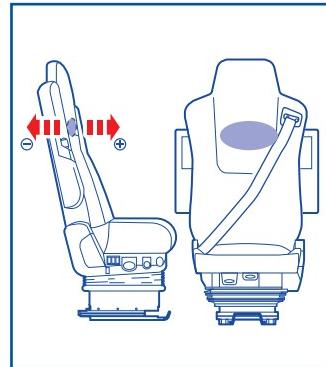
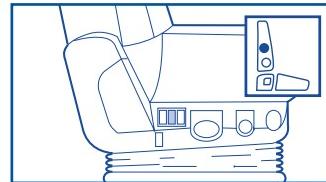
Lower Lumbar Support Adjustment

Upper lumbar support enables an optimal adaption on lower side of the backrest. Press upper side of the button to increase lower lumbar support. Press lower part of the button to decrease lower lumbar support.



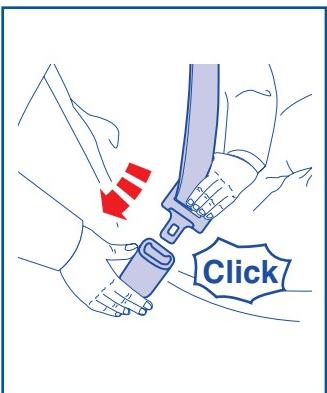
Upper Lumbar Support Adjustment

Upper lumbar support enables an optimal adaption on upper side of the backrest. Press upper side of the button to increase upper lumbar support. Press lower part of the button to decrease upper lumbar support.

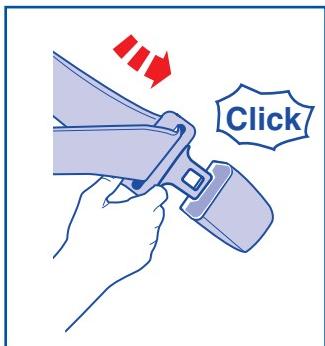


4.1.2 Driver's Seat Belt

First adjust the seat, put on the seat belt and then perform other actions.

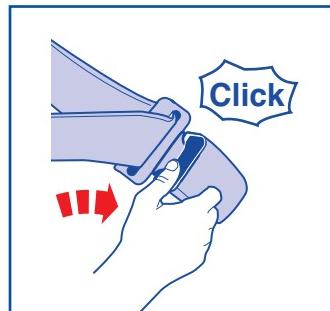


Insert the buckle latch into the belt buckle until it engages with a click. Press the red button on the belt buckle to release the belt. Belt should coil automatically.



WARNING

Do a seat belt check once a week by pulling it while it is engaged, it should not release.



4.1.3 Rear View Mirror Sight Adjustment

Adjust the positions of the rear view mirrors before driving (see page 36).



INFORMATION



Before driving, first adjust the seat position, put on seat belt and then adjust rear view mirrors positions. Adjust the mirrors to guarantee utmost visibility.

4.1.4 Steering Wheel Adjustment

Always check steering wheel position before driving (see page 51).



INFORMATION



Adjust the seat position first, put on seat belt and then adjust steering wheel position. Steering wheel position must not prevent full vision of indicator and fault lamps.

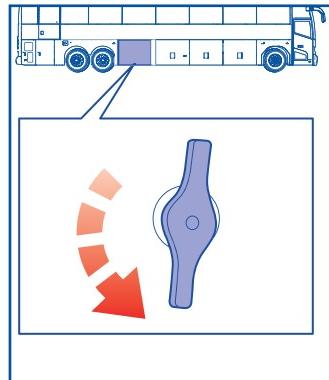
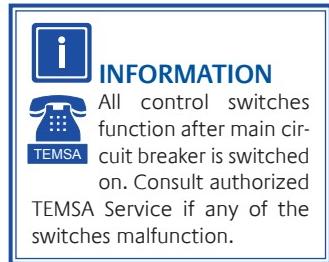


WARNING

Changing steering wheel position when driving will reduce control over the vehicle and could cause accidents.

4.1.5 Checking Control Switches

Check that all control switches function properly before driving.



4.1.6 Checking Indicator and Warning Lamps

Indicator and warning lights provide all the information about the operations of the vehicle. It is of vital importance to check all of the indicator and warning lamps before driving.



4.1.7 Checking Air Pressure

Check that air pressure is enough to operate brake and other systems.



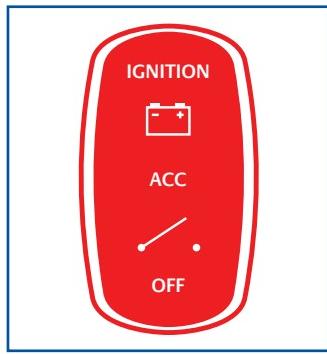


SAFETY IS IN YOUR HANDS

FASTEN YOUR SEATBELTS ON THE COACH

Value in motion

4.2 Driving



Push the upper side of ACC switch for activate electrical systems.

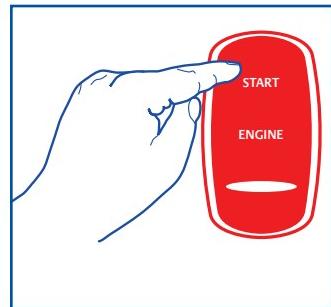
Starting the Engine

Check that parking brake is activated before starting the engine.

Push the ACC switch for activate electrical systems and check all the indicators and warning lamps on the instrument panel.

After performing all controls and adjustment, activate electrical systems and press of the start switch.

Only start the engine when "Neutral" gear is engaged.



WARNING

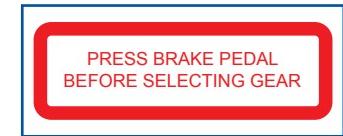
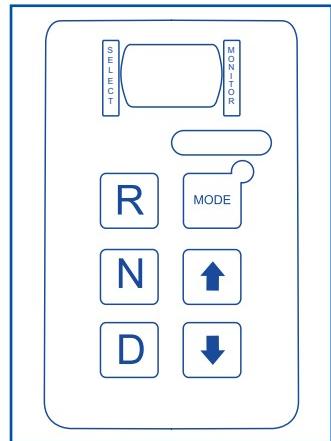
Do not apply accelerator pedal while starting the engine. ECM system might be affected adversely.



INFORMATION

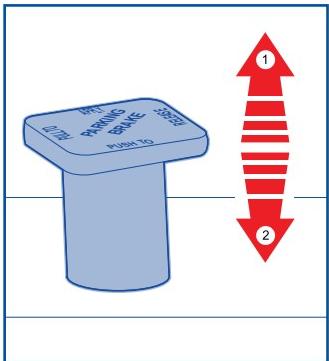
- Steering wheel will lock up if it is rotated when the ignition key is removed.
- When the electrical systems are activated, wait till the "ABS" warning lamp turns off before starting engine.

After starting the engine, apply the brake pedal and select gear according to the direction you choose to drive.



4.2 Driving

Push the brake lever downwards to release the parking brake.



Release the parking brake after starting the engine. Check that (P) parking brake symbol located on instrument panel is off.

**HAND BRAKE RELEASE
USE TEMPORARY ONLY
DURING BRAKE FAILURE**



INFORMATION

Air is intended as an aid for brakes. (P) The parking brake symbol does not extinguish until the required pressure of the tank is reached.

Vehicle is ready for driving. Release the service brake pedal gently. Check that brakes function properly before starting to drive.



INFORMATION

Your safety, engaging the gear is not allowed unless service brake pedal is applied.

Slowing Down and Stopping

Activate retarder brake instead of applying service brake on descends to slow down.



INFORMATION

These auxiliary brakes allow the vehicle to be slowed smoothly and almost free of wear.

Auxiliary brake systems cannot provide sufficient braking power to stop the vehicle. Stop the vehicle by applying service brake and then shift to "Neutral".



INFORMATION

Switch off the ignition when the vehicle is not used for longer periods. This will reduce fuel consumption.



WARNING

- Do not stop the engine immediately after stopping the vehicle. Run the engine in idle position for 3 minutes to allow the proper cooling and then stop the engine.
- Never allow unauthorized people to drive the vehicle. Remove the ignition key before leaving the vehicle.



WARNING

Never switch off the ignition while driving. This may cause the steering wheel to lock up.

4.2 Driving

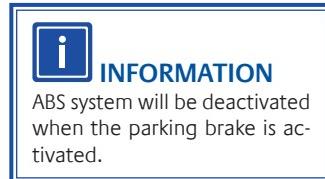
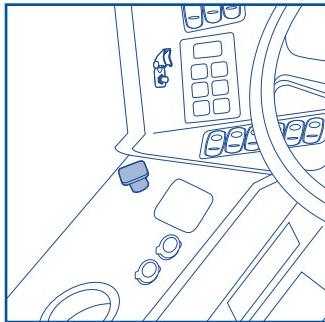
Parking

Activate the parking brake after stopping the vehicle.

Direct the tires towards the pavement when parking downhill.

Direct the tires away from the pavement when parking uphill.

Switch the ignition key to position "0" after stopping the engine and remove the key.



4.3 Emergency Situations

Additional emergency equipment is provided with the vehicle.

It is vital importance to use and maintain the equipment properly.

Check that first aid kit and fire extinguisher are located in there correct positions.

Warning and information labels are provided inside the vehicle. Inform the passengers about these labels and what to do.

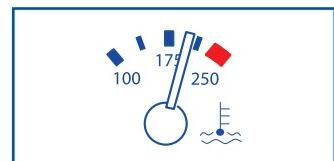
Engine Overheat



INFORMATION

Check the engine temperature regularly while driving. Temperature indicator is located on the instrument panel.

When the engine coolant temperature rises, stop the vehicle in an appropriate place and activate the parking brake. Turn the air conditioning off. Run the engine at idle speed until the coolant temperature drops to normal level. Open the radiator lid gently without stopping the engine.



4.3 Emergency Situations

Engine Overheat



WARNING

Never open radiator cap when the engine is hot.



HOT SURFACES

Accessible parts would be hot when the engine maintenance lid is opened.



SAFETY GLOVES

Wear protective gloves before touching these parts.



ROTATING PARTS

Some parts still rotate although engine has stopped. Check that all parts are stationary before touching.



VISUAL INSPECTION

Sudden rise in coolant temperature may indicate damage to the belt.



CONSULT AUTHORIZED SERVICE

Consult authorized TEMSA Service in such a case before driving.



CONSULT AUTHORIZED SERVICE

Consult authorized TEMSA Service if the engine does not run despite checking all controls and applications.

Engine Failure

Simple problems may cause failure of the engine. There are some applications that can be done before consulting the authorized TEMSA Service.



Emergency Stop Switch could be pressed.



Release the Emergency Stop Switch.



Lack of fuel.



Refuel.



Empty Battery.



Check the battery charge. Replace battery.



DPF reaches sufficient level of soot loading.



Manual Regeneration must be perform (See page 134)



High Exhaust System Temperature



The HEST Lamp is a reminder to the driver that the DPF outlet temperature is more than approximately 840°F. No actions is required.

4.3.1 Towing the Vehicle



INFORMATION

- Laws regarding towing the vehicle vary according to state laws.
- All applications must be done by taking the present state's rules into consideration.



WARNING

- Materials used for towing vary according to malfunction type.
- For vehicles with brake problems: Tow bar
 - For vehicles without brake problems: Tow rope, Tow chain can be used.



WARNING

Drive axle shaft must be removed when coach is being towed to avoid possibility of damage to transmission.

In all towing applications:

- Insert the ignition key and switch to position "2".
- Run the engine to activate hydraulic steering wheel support and braking system.
- Do not activate retarder if engine is off.
- Remove the propeller shaft and shift to "Neutral" before towing process.
- Always tow the vehicle at low speeds.
- Resolve the problem mechanically in case of system air pressure malfunctioning (see also page 164).
- Check that tow rope, chain is parallel to the road during the towing process.



WARNING

Technical knowledge is needed for towing. Only road recovery service must perform this application.



INFORMATION

- Tow rope length can be 5 meters / 16,4 ft and tow bar length can be maximum 1 meter / 3,28 ft.
- Red warning signs must be attached on tow ropes longer than 2.5 meters/8.2ft.
- If the lighting system of the towed vehicle is malfunctioning, a 0,65x0,65ft /20x20 cm red reflector must be placed behind the vehicle.

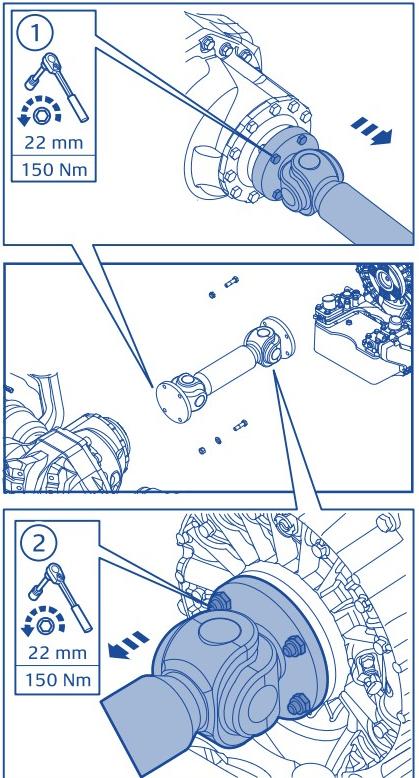


INFORMATION

- Maximum speed limit is 9,3 mph / 15 km/h for vehicles with brake problems.
- Maximum speed limit is 12,5 mph / 20 km/h for vehicles with no brake problems.

4.3.1 Towing the Vehicle

Removing the Propeller Shaft



1. Remove the propeller shaft, transmission connection nuts, then remove the propeller shaft from the transmission.
2. Remove the rear axle and shaft connection bolts and separate the shaft from the rear axle



WARNING

Parking brake can be locked when air pressure in the system is insufficient.

If parking brake is locked, please follow instructions on page 164.

Ensure the parking brake system function again before towing.



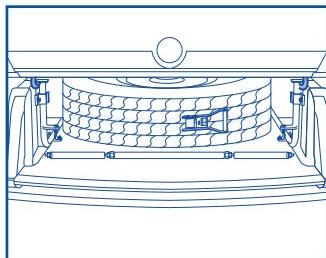
WARNING

After removal of the propeller shaft, place gearbox in a neutral position.

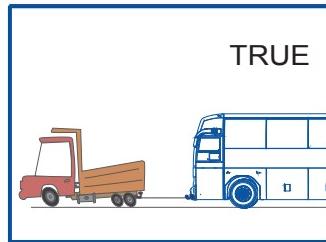
4.3.1 Towing the Vehicle

Access to Front Tow Hook

It is located inside the front bumper.
See also page 158.



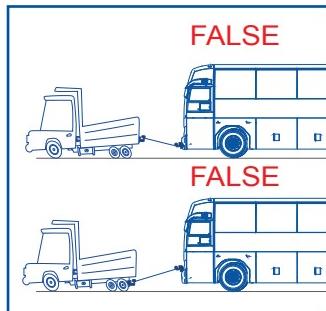
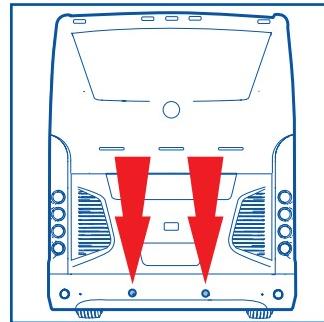
Make sure the tow rope is parallel to the road during the towing process. Otherwise it may cause serious damage to the vehicle.



First deactivate the parking brake. Push the lower side of the ACC button and shift into "Neutral".
Electrical systems must be activated during towing process. Never deactivate the electrical systems, otherwise steering wheel will lock.

Access to Rear Tow Hook

It is located on rear bumper.



Use rear towing hook to tow any vehicle.

